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Introduction

Overview



3SB 2

SIGNUM 3SB3

SIGNUM 3SB3

SIGNUM 3SB3

Pushbuttons and indicator lights

Design

Nominal diameter	16 mm	22 mm	22 mm	22 mm
Version	Plastic, round	Plastic, round	Plastic, square	Metal, round

Actuating elements

Pushbuttons and switches	✓	✓	✓	✓
Illuminated pushbuttons and switches	✓	✓	✓	✓
Mushroom pushbuttons	–	✓	–	✓
Push-pull buttons	–	✓	–	✓
EMERGENCY-STOP mushroom pushbuttons	✓	✓	✓	✓
Non-illuminated selector switches	✓	✓	✓	✓
Key-operated switches	✓	✓	✓	✓

Special actuating elements

Joystick switches	–	✓	–	–
Twin pushbuttons	–	✓	–	–
Potentiometer operating mechanisms	–	✓	–	–

Indicators

Indicator lights	✓	✓	✓	✓
Acoustic signaling devices	–	✓	–	–

Switch blocks

Single-pole	✓	✓	✓	✓
Double-pole	✓	✓	✓	✓

Lampholders

Wedge base	✓	✓ (with solder pins)	✓ (with solder pins)	✓ (with solder pins)
BA 9s base	–	✓	✓	✓
with integrated LED	–	✓	✓	✓

Connections

Plug-in connection	✓	–	–	–
Screw connection	–	✓	✓	✓
Spring-loaded terminal	–	✓	✓	✓
Solder pins	✓	✓	✓	✓
AS-Interface	–	✓	✓	✓

AS-Interface solutions

Control and signaling devices of the SIGNUM 3SB3 series can be connected to the AS-Interface communication system quickly and easily with the help of various solutions.

For AS-Interface solutions, see Catalog IK PI "Industrial communication for Automation & Drives".

AS-Interface EMERGENCY-STOP

It is now possible to directly connect EMERGENCY-STOP devices over the standard AS-Interface using failsafe communication. This only applies for EMERGENCY-STOP devices of SIGNUM 3SB3 control devices for front panel mounting and for mounting in an enclosure.

AS-Interface front panel module

The front panel module contains one 4I/4O slave, four SIGNUM 3SB3 control devices as well as the necessary mounting accessories.

The module is mounted on the rear of a group of four control devices arranged horizontally or vertically and fixed with screws. For mounting control devices, a grid pattern of 30 mm × 45 mm must be used. Contact is made with the trapezoidal section of the AS-Interface cable by means of a terminal on the rear of the module using the insulation piercing method.

The module is addressed using the AS-Interface connections or the integrated addressing socket.



SIGNUM 3SB3
Enclosure



SIGNUM 3SB3
Enclosure



SIGNUM 3SF3
AS-Interface



SIGNUM 3SB4
Control panel

	SIGNUM 3SB3 Enclosure	SIGNUM 3SB3 Enclosure	SIGNUM 3SF3 AS-Interface	SIGNUM 3SB4 Control panel
Design				
Nominal diameter	22 mm	22 mm	22 mm	22 mm
Version	Plastic, round	Metal, round	Plastic, round	Plastic/metal
Actuators				
Pushbuttons and switches	✓	✓	✓	✓
Illuminated pushbuttons and switches	✓	✓	✓	✓
Mushroom pushbuttons	✓	✓	✓	✓
Push-pull buttons	✓	✓	✓	✓
EMERGENCY-STOP mushroom pushbuttons	✓	✓	✓	✓
Non-illuminated selector switches	✓	✓	✓	✓
Key-operated switches	✓	✓	✓	✓
Indicators				
Indicator lights	✓	✓	✓	✓
Acoustic signaling devices	✓	–	✓	✓
Special actuators				
Joystick switches	–	–	–	–
Twin pushbuttons	–	–	–	–
Potentiometer operating mechanism	–	–	–	✓
Membrane keypads	–	–	–	✓
Switch blocks				
Single-pole	✓	✓	–	✓
Double-pole	–	–	–	✓
Lampholders				
Wedge base	–	–	–	–
BA 9s base	✓	✓	–	✓
with integrated LED	✓	✓	–	✓
Connections				
Plug-in connection	–	–	–	✓
Screw connection	✓	✓	–	✓
Spring-loaded terminal	✓	✓	–	✓
Solder pins	–	–	–	✓
AS-Interface	–	–	✓	✓
PROFIBUS DP	–	–	–	✓

AS-Interface solutions

Control and signaling devices of the SIGNUM 3SB3 series can be connected to the AS-Interface communication system quickly and easily with the help of various solutions.

For AS-Interface solutions, see Catalog IK PI "Industrial communication for Automation & Drives".

AS-Interface enclosure

The enclosures without EMERGENCY-STOP contain a 4I/4O application module; an F adapter is mounted onto EMERGENCY-STOP enclosures. The switch blocks and lampholders of the control devices as well as the AS-Interface slave are soldered onto a supporting printed circuit board and screwed onto the control devices.

Pushbuttons and Indicator Lights

16 mm Nominal Diameter

General data

Overview

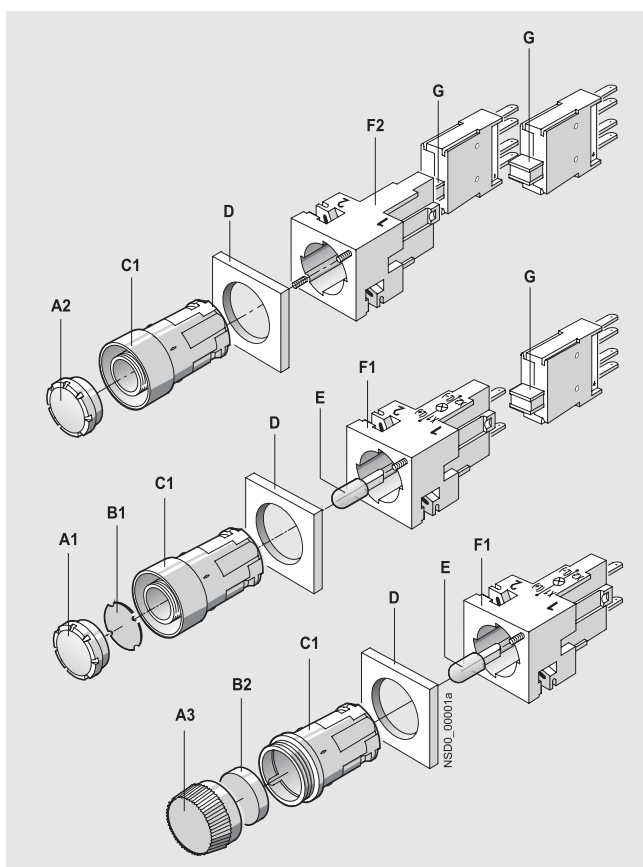
The 3SB2 pushbuttons and indicator lights are provided for front plate mounting and rear connection with flat connectors. For use on PCBs, switch blocks and lampholders with solder pins are also available.

The devices are climate-proof and suitable for marine applications.

Standards

IEC 60947-5-1 (VDE 0660 Part 200).

Design



- A1 Illuminated pushbutton, flat
- A2 Pushbutton, flat
- A3 Screw lens for indicator light
- B1 Insert label for inscription
- B2 Insert cap for inscription
- C1 Collar with extruded front ring
- C2 Collar for indicator light
- D Frame for rectangular design
- E Wedge-base lamps W2 x 4.6 d
- F1 Lampholder with holder
- F2 Holder
- G Switch blocks (1 NO or 1 NC) for snapping onto holder or lampholder

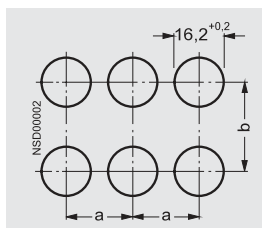
Design

Two versions are available:

- Round design: The 3SB2 pushbuttons and indicator lights are assembled with the elements – actuator, holder, switch block and lampholder. Depending on the specific application, various versions can be assembled. Complete units are offered for the most commonly used applications.
- Square design: With square, black frames the round units can be given a square look. The frames are inserted underneath the round actuators. Further mounting is the same as for the round design.

Mounting and fixing

Mounting dimensions acc. to EN 50007.



Minimum clearance	A	B
Round design	19	19
Square design without labeling plate	21	21
Round and square design with labeling plate	21	32
For 2 selector switches with 3 switch positions, latching, side by side	21	21

For fixing, the actuator or the lens assembly is inserted from the front into the hole in the front plate. Four small nubs ensure a secure fitting in the hole. The holder is plugged on the actuator or the lens assembly from behind and automatically snaps into place. The element is screwed down tightly with 2 screws on the holder and thus levels panel thickness from 1 to 6 mm.

One or two switch blocks can be mounted on the holder. They are inserted into the holder with slide slots and held down with two snap brackets.

If a command point is fitted with an indicator light or illuminated pushbutton, a lamp socket with holder must be used instead of a holder. It is suitable for incandescent lamps or LEDs with sockets of type W2 x 4.6 d.

Connections

The switch blocks and the lampholder are equipped with flat connectors in accordance with IEC 60760 which can also be used as solder-pin terminals.

To permit through-connection all terminals are provided with two tabs.

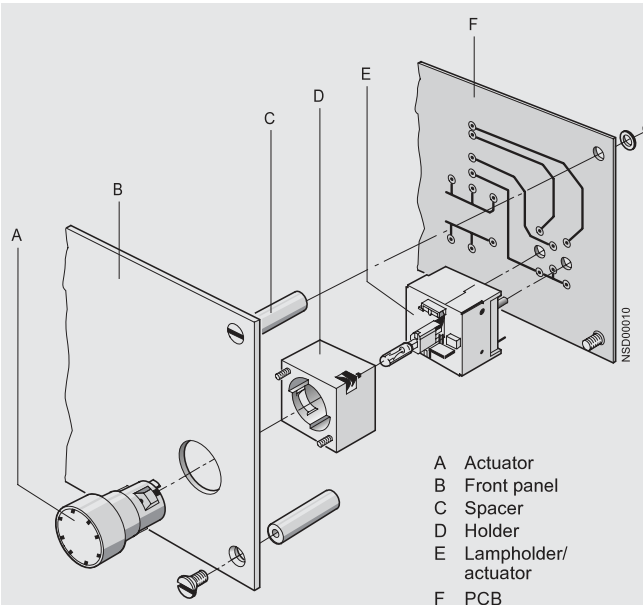
Pushbuttons and Indicator Lights

16 mm Nominal Diameter

General data

For PCB mounting

The command point comprises the actuator – e.g. 3SB2 pushbutton, illuminated pushbutton or indicator light –, which is mounted in the front plate, and a switch block and a lampholder which are soldered to the PCB. For this purpose, the switch blocks and lampholders are fitted with 0.8 mm × 0.8 mm solder pins of length 3.5 mm.



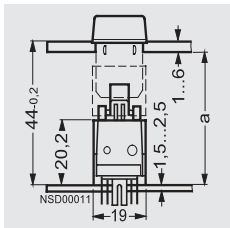
Mounting and fixing

Mounting dimensions acc. to EN 50007.

The actuators are mounted in the same way as 3SB2 front plate mounting devices.

The switch blocks and lampholders plugged into the printed-circuit board by means of their soldering pins and can be flow-soldered. After soldering, the devices must be flush with the board and perpendicular to it. The printed circuit board must be supported on spacers so that it cannot sag or bend more than 0.1 mm.

Illuminated pushbuttons with switch blocks and lampholders with solder pins



Length a of spacing bolts
 $a = 44^{+0.2}$ minus front panel thickness

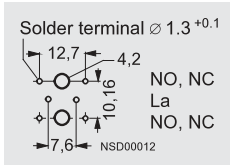
When using name plates, the length a is reduced by 0.8 mm.

To avoid bending the PCB when the pushbuttons are operated, sufficient spacers must be provided as shown in the table below:

PCB thickness	Max. distance between spacers
1.5 mm	80 mm
2.5 mm	150 mm
When using EMERGENCY-STOP pushbuttons	always 50 mm

These details are based on epoxy resin glass fiber mat.

Spacing of solder pins



Pushbuttons and Indicator Lights

16 mm Nominal Diameter

General data

Technical specifications

Regulations, standards	IEC 60947-5-1, EN 60947-5-1 (VDE 0660 Part 200), IEC 60947-5-5, EN 60947-5-5	
Rated insulation voltage U_i	250 V	
Continuous thermal current I_{th}	10 A	
Rated operating current I_e at rated operating voltage U_e • Alternating current AC-12	At U_e 230 V	I_e 10 A
• Alternating current AC-15	At U_e 24 V 60 V 110 V 230 V	I_e 4 A 4 A 4 A 4 A
• Direct current DC-12	At U_e 24 V 60 V 110 V 230 V	I_e 6 A 5 A 2.5 A 1 A
• Direct current DC-13	At U_e 24 V 60 V 110 V 230 V	I_e 3 A 1.5 A 0.7 A 0.3 A
Contact stability Test voltage/test current	5 V/1 mA	
Short-circuit protection completely weld-free according to IEC 60947-5-1 • DIAZED fuse links, operational class gL/gG • Circuit-breakers with C characteristic according to IEC 60898 (VDE 0641)	10 A TDz, 16 A Dz 10 A	
Mechanical endurance • Pushbuttons and switch blocks • Actuating elements, rotary or latching • Illuminated pushbuttons	10 × 10 ⁶ operating cycles 3 × 10 ⁵ operating cycles 3 × 10 ⁶ operating cycles	
Electrical endurance • For operational class AC-15 with 3RT10 15 to 3RT10 26 contactors	10 × 10 ⁶ operating cycles	
Climatic withstand capability	Climate-proof; suitable for marine applications	
Ambient temperature • During operation, non-illuminated devices and with LED • During operation, devices with incandescent lamp • During storage, transport	-25 to +70 °C -25 to +60 °C -40 to +80 °C	
Degree of protection acc. to IEC 60529 (VDE 0470 Part 1) • Connection of switch blocks and lampholders behind the front panel • Contact chambers of the switch blocks behind the front panel • Actuators and indicators • Actuator and indicators with protective cap	IP00 IP40 IP65 IP67	
Lamps • Base • Operating voltage range	Wedge base W2 × 4.6 d 6, 12, 24, 30, 48, 60 V; max. 1 W	
Connection Clamp-type terminal with flat connectors for plug-in sleeves to IEC 60760	Flat connector 2 × 2.8/0.8 mm	
Safety measures • For mounting in metal front plates and enclosures • For fitting into enclosures with total insulation	The actuating elements and lens assemblies must not be included in the protective measures. The protective measure "Total insulation" is retained.	
Finger-safe acc. to DIN VDE 0106 Part 100 and VBG 4	With voltages > AC 50 V or DC 120 V insulating sleeves must be fitted to the unassigned tab connections.	
Shock resistance acc. to IEC 60068-2-27 Shock amplitude Shock duration Shock form	≤ 50 g 11 ms Half-sine	
Data acc. to UL and CSA		
Rated voltage • Switch blocks • Indicator lights	AC 250 V max. Lamp with wedge base W2 × 4.6 d: max. 60 V; 1 W	
Continuous current	5 A	
Switching capacity	B 300, R 300	

Pushbuttons and Indicator Lights

16 mm Nominal Diameter

Complete unit combinations

Selection and ordering data

	Version	Color Actuator	Switch blocks	DT	Order No.	PS*	Weight per PU, approx.
			Version				kg
 Pushbuttons and illuminated pushbuttons with flat button	Pushbutton with flat button	black	1 NO	▶	3SB22 02-0AB01	1 unit	0.023
		black	1 NC	B	3SB22 03-0AB01	1 unit	0.023
		red	1 NC	▶	3SB22 03-0AC01	1 unit	0.023
		yellow	1 NO	B	3SB22 02-0AD01	1 unit	0.023
		green	1 NO	▶	3SB22 02-0AE01	1 unit	0.023
		blue	1 NO	B	3SB22 02-0AF01	1 unit	0.023
		white	1 NO	▶	3SB22 02-0AG01	1 unit	0.024
		clear ¹⁾	1 NO	B	3SB22 02-0AH01	1 unit	0.023
	Illuminated pushbutton with flat button with lampholder W2 x 4.6 d ²⁾	red	1 NC	▶	3SB22 07-0AC01	1 unit	0.025
		yellow ¹⁾	1 NO	B	3SB22 06-0AD01	1 unit	0.025
		green	1 NO	▶	3SB22 06-0AE01	1 unit	0.025
		blue	1 NO	B	3SB22 06-0AF01	1 unit	0.025
		clear ¹⁾	1 NO	▶	3SB22 06-0AH01	1 unit	0.024
	Illuminated pushbutton with flat button with lampholder W2 x 4.6 d and incandescent lamp 24 V	red	1 NC	▶	3SB22 27-0AC01	1 unit	0.025
		yellow ¹⁾	1 NO	B	3SB22 26-0AD01	1 unit	0.025
		green	1 NO	▶	3SB22 26-0AE01	1 unit	0.025
		blue	1 NO	B	3SB22 26-0AF01	1 unit	0.025
		clear ¹⁾	1 NO	▶	3SB22 26-0AH01	1 unit	0.025
 Pushbuttons and illuminated pushbuttons with raised button	Pushbutton with raised button	black	1 NO	B	3SB22 02-0LB01	1 unit	0.024
		red	1 NC	B	3SB22 03-0LC01	1 unit	0.024
		yellow	1 NO	B	3SB22 02-0LD01	1 unit	0.023
		blue	1 NO	B	3SB22 02-0LF01	1 unit	0.024
		clear ¹⁾	1 NO	B	3SB22 02-0LH01	1 unit	0.024
	Illuminated pushbutton with raised button with lampholder W2 x 4.6 d ²⁾	red	1 NC	B	3SB22 07-0LC01	1 unit	0.025
		yellow ¹⁾	1 NO	B	3SB22 06-0LD01	1 unit	0.025
		green	1 NO	B	3SB22 06-0LE01	1 unit	0.025
		blue	1 NO	B	3SB22 06-0LF01	1 unit	0.022
		clear ¹⁾	1 NO	B	3SB22 06-0LH01	1 unit	0.025
	Illuminated pushbutton with raised button with lampholder W2 x 4.6 d and incandescent lamp 24 V	red	1 NC	B	3SB22 27-0LC01	1 unit	0.027
		yellow ¹⁾	1 NO	B	3SB22 26-0LD01	1 unit	0.026
		green	1 NO	B	3SB22 26-0LE01	1 unit	0.026
		blue	1 NO	B	3SB22 26-0LF01	1 unit	0.025
		clear ¹⁾	1 NO	B	3SB22 26-0LH01	1 unit	0.026
	EMERGENCY-STOP mushroom pushbuttons acc. to EN 418, latching latches automatically when pressed; unlatches by turning the mushroom head anticlockwise with yellow name plate with inscription "EMERGENCY-STOP"	red	1 NC	▶ ³⁾	3SB22 03-1AC01	1 unit	0.032
 EMERGENCY-STOP mushroom pushbuttons							

1) Inscription is possible by inserting a label.

2) For wedge base lamps, see Accessories.

3) Positive opening according to IEC 60947-5-1, Appendix K.



Pushbuttons and Indicator Lights

16 mm Nominal Diameter

Complete unit combinations

	Version	Color Actuator	Switch blocks	DT	Order No.	PS*	Weight per PU, approx.
			Version				kg
 Non-illuminated selector switches	Selector switch, 2 switch positions switching sequence O-I latching 	black	1 NO	▶	3SB22 02-2AB01	1 unit	0.026
		red	1 NO	B	3SB22 02-2AC01	1 unit	0.025
		green	1 NO	B	3SB22 02-2AE01	1 unit	0.025
		white	1 NO	B	3SB22 02-2AG01	1 unit	0.026
	Selector switch, 3 switch positions switching sequence I-O-II latching 	black	1 NO, 1 NO	▶	3SB22 10-2DB01	1 unit	0.030
		red	1 NO, 1 NO	B	3SB22 10-2DC01	1 unit	0.028
		green	1 NO, 1 NO	B	3SB22 10-2DE01	1 unit	0.030
		white	1 NO, 1 NO	B	3SB22 10-2DG01	1 unit	0.029
	Selector switch, 3 switch positions switching sequence I-O-II momentary contact type 	black	1 NO, 1 NO	▶	3SB22 10-2EB01	1 unit	0.030
		red	1 NO, 1 NO	B	3SB22 10-2EC01	1 unit	0.029
		green	1 NO, 1 NO	B	3SB22 10-2EE01	1 unit	0.029
		white	1 NO, 1 NO	B	3SB22 10-2EG01	1 unit	0.029

	Version	Lock No.	Switch blocks	Key removal position	DT	Order No.	PS*	Weight per PU, approx.
			Version					kg
 CES key-operated switch	CES key-operated switch, 2 switch positions switching sequence O-I latching 	SB 2	1 NO	O	▶	3SB22 02-4LA01	1 unit	0.053
			1 NO	O + I	B	3SB22 02-4LB01	1 unit	0.053
	CES key-operated switch, 3 switch positions switching sequence I-O-II latching 	SB 2	1 NO, 1 NO	O	B	3SB22 10-4PA01	1 unit	0.056
			1 NO, 1 NO	I + O + II	B	3SB22 10-4PB01	1 unit	0.056
	CES key-operated switch, 3 switch positions switching sequence I-O-II momentary contact type 	SB 2	1 NO, 1 NO	O	B	3SB22 10-4QA01	1 unit	0.057

	Version	Color Actuator	DT	Order No.	PS*	Weight per PU, approx.
						kg
 Indicator lights	Indicator light with lampholder W2 x 4.6 d without lamp ¹⁾	red	▶	3SB22 04-6BC06	1 unit	0.020
		yellow	B	3SB22 04-6BD06	1 unit	0.020
		green	▶	3SB22 04-6BE06	1 unit	0.020
		white	▶	3SB22 04-6BG06	1 unit	0.020
		clear	B	3SB22 04-6BH06	1 unit	0.020
	Indicator light with lampholder W2 x 4.6 d and incandescent lamp 24 V	red	▶	3SB22 24-6BC06	1 unit	0.021
		yellow	B	3SB22 24-6BD06	1 unit	0.021
		green	▶	3SB22 24-6BE06	1 unit	0.021
		white	▶	3SB22 24-6BG06	1 unit	0.020
		clear	B	3SB22 24-6BH06	1 unit	0.021

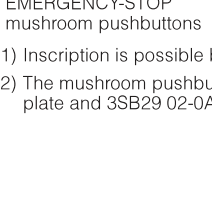
1) For wedge base lamps, see Accessories.

Pushbuttons and Indicator Lights

16 mm Nominal Diameter

Actuating and signaling elements

Selection and ordering data

	Version	Color Actuator	DT	Order No.	PS*	Weight per PU, approx. kg
	Pushbutton with flat button	black	▶	3SB20 00-0AB01	1 unit	0.005
		red	▶	3SB20 00-0AC01	1 unit	0.005
		yellow	B	3SB20 00-0AD01	1 unit	0.005
		green	▶	3SB20 00-0AE01	1 unit	0.005
		blue	B	3SB20 00-0AF01	1 unit	0.005
		white	▶	3SB20 00-0AG01	1 unit	0.005
		clear ¹⁾	B	3SB20 00-0AH01	1 unit	0.005
	Illuminated pushbutton with flat button	red	▶	3SB20 01-0AC01	1 unit	0.005
		yellow ¹⁾	B	3SB20 01-0AD01	1 unit	0.006
		green	▶	3SB20 01-0AE01	1 unit	0.005
		blue	B	3SB20 01-0AF01	1 unit	0.005
		white	▶	3SB20 00-0AG01	1 unit	0.005
		clear ¹⁾	B	3SB20 00-0AH01	1 unit	0.005
	Pushbutton with raised button	black	B	3SB20 00-0LB01	1 unit	0.005
		red	B	3SB20 00-0LC01	1 unit	0.005
		yellow	B	3SB20 00-0LD01	1 unit	0.005
		blue	B	3SB20 00-0LF01	1 unit	0.006
		white	B	3SB20 00-0LG01	1 unit	0.020
		clear ¹⁾	B	3SB20 00-0LH01	1 unit	0.006
	Illuminated pushbutton with raised button	red	B	3SB20 01-0LC01	1 unit	0.005
		yellow ¹⁾	B	3SB20 01-0LD01	1 unit	0.005
		green	B	3SB20 01-0LE01	1 unit	0.005
		blue	B	3SB20 01-0LF01	1 unit	0.006
		clear ¹⁾	B	3SB20 00-0LH01	1 unit	0.006
	EMERGENCY-STOP mushroom pushbutton according to EN 418, latching²⁾ latches automatically when pressed; Unlatches by turning the mushroom head anti-clockwise	red	▶	3SB20 00-1AC01	1 unit	0.015

1) Inscription is possible by inserting a label.

2) The mushroom pushbutton cannot be combined with 3SB29 00-0... name plate and 3SB29 02-0AA single frame.



	Version	Color Actuator	DT	Order No.	PS*	Weight per PU, approx. kg
		black	▶	3SB20 00-2AB01	1 unit	0.008
		red	A	3SB20 00-2AC01	1 unit	0.008
		green	B	3SB20 00-2AE01	1 unit	0.007
		white	B	3SB20 00-2AG01	1 unit	0.008
		black	A	3SB20 00-2BB01	1 unit	0.008
		red	B	3SB20 00-2BC01	1 unit	0.008
		green	B	3SB20 00-2BE01	1 unit	0.008
		black	B	3SB20 00-2HB01	1 unit	0.009
		red	B	3SB20 00-2HC01	1 unit	0.008
		green	C	3SB20 00-2HE01	1 unit	0.007
		white	B	3SB20 00-2HG01	1 unit	0.008
		black	▶	3SB20 00-2DB01	1 unit	0.008
		red	C	3SB20 00-2DC01	1 unit	0.007
		green	B	3SB20 00-2DE01	1 unit	0.007
		black	▶	3SB20 00-2EB01	1 unit	0.008
		red	B	3SB20 00-2EC01	1 unit	0.007
		green	B	3SB20 00-2EE01	1 unit	0.008
		white	B	3SB20 00-2EG01	1 unit	0.007
		black	B	3SB20 00-2JB01	1 unit	0.008

* This quantity or a multiple thereof can be ordered

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Pushbuttons and Indicator Lights

16 mm Nominal Diameter

Actuating and signaling elements

	Version	Lock No.	Key removal position	DT	Order No.	PS*	Weight per PU, approx. kg
 CES key-operated switch	 CES key-operated switch with 2 keys, 2 switch positions switching sequence O-I latching 62° operating angle	SB2	O+I O	B ▶	3SB20 00-4LB01 3SB20 00-4LA01	1 unit 1 unit	0.035 0.036
	 CES key-operated switch with 2 keys, 2 switch positions switching sequence O-I momentary contact type (reset from the right) 50° operating angle	SB2	O	▶	3SB20 00-4MA01	1 unit	0.035
	 CES key-operated switch with 2 keys, 3 switch positions switching sequence I+O+II latching 2 x 62° operating angle	SB2	I+O+II O	B B	3SB20 00-4PB01 3SB20 00-4PA01	1 unit 1 unit	0.035 0.035
	 CES key-operated switch with 2 keys, 3 switch positions switching sequence I-O-II momentary contact type (reset from the right) 2 x 50° operating angle	SB2	O	B	3SB20 00-4QA01	1 unit	0.038

	Version	Color screw lens	DT	Order No.	PS*	Weight per PU, approx. kg
 Indicator light	Indicator light with concentric rings (inscription by inserting a cap is not possible)	red	▶	3SB20 01-6BC06	1 unit	0.004
		yellow	B	3SB20 01-6BD06	1 unit	0.004
		green	▶	3SB20 01-6BE06	1 unit	0.004
		blue	B	3SB20 01-6BF06	1 unit	0.004
		white	▶	3SB20 01-6BG06	1 unit	0.004
		clear	B	3SB20 01-6BH06	1 unit	0.004
	Indicator light, smooth, for inscription by inserting a cap ¹⁾	red	B	3SB20 01-6CC06	1 unit	0.017
		yellow	B	3SB20 01-6CD06	1 unit	0.005
		green	B	3SB20 01-6CE06	1 unit	0.004
		blue	B	3SB20 01-6CF06	1 unit	0.004
		clear	B	3SB20 01-6CH06	1 unit	0.020

1) For insert caps, see Accessories.

Pushbuttons and Indicator Lights

16 mm Nominal Diameter

Switch blocks and lampholders

Selection and ordering data

Version	Symbols	Contact travel	DT	Order No.	PS*	Weight per PU, approx.
		 contact closed				
		 contact open				

kg

Switch blocks and lampholders with tab connectors 2 × 2.8–0.8 mm acc. to IEC 60760

Holder for fixing the actuating element and the switch blocks

Holder for 2 switch blocks
Inscription with sequence digit 1-2

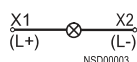
▶ **3SB29 08-0AA** 5 units 0.008



Holder

Lamp socket with holder for fixing the actuator and the switch blocks

Lampholder
W2 x 4.6 d



▶ **3SB23 04-2A** 1 unit 0.009

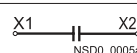
Lampholder
W2 x 4.6 d
• with 6 V incandescent lamp
• with 24 V incandescent lamp



B **3SB23 04-2F** 1 unit 0.010

B **3SB23 04-2H** 1 unit 0.010

Series element ¹⁾
for connecting the 3SB29 08-1AE (48 V) lamp to AC 230 V



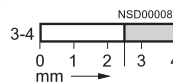
B **3SB24 04-3D** 1 unit 0.008



Series element

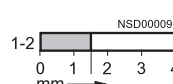
Switch blocks for fixing in the holder or lampholder

Switch block with one contact ²⁾
1 NO



▶ **3SB24 04-0B** 1 unit 0.004

1 NC → ³⁾



▶ **3SB24 04-0C** 1 unit 0.004



Switch block

- 1) Use support point terminal according to IEC 60 439-1.
2) For plug-in and insulating sleeves, see Accessories.
3) Positive opening according to IEC 60 947-5-1, Appendix K.

Pushbuttons and Indicator Lights

16 mm Nominal Diameter

Switch blocks and lampholders

Version	Symbols	Contact travel	DT	Order No.	PS*	Weight per PU, approx.
		contact closed contact open				kg

Switch blocks and lampholders with solder pins



Holder

Holder for switch blocks with solder pins
for fixing the actuating elements in the front panel

Lampholder
wedge base W2 x 4.6 d



B **3SB29 08-0AB** 5 units 0.006

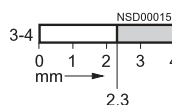
B **3SB24 55-2A** 1 unit 0.008



Switch block with solder pins

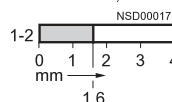
Switch block

1 NO



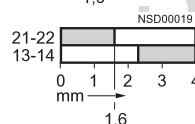
B **3SB24 55-0B** 1 unit 0.008

1 NC → ¹⁾



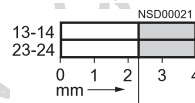
B **3SB24 55-0C** 1 unit 0.008

1 NO + 1 NC → ¹⁾



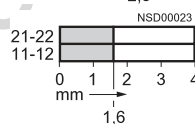
B **3SB24 55-0J** 1 unit 0.010

1 NO + 1 NO



B **3SB24 55-0E** 1 unit 0.009

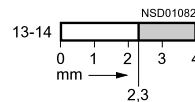
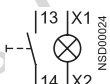
1 NC + 1 NC → ¹⁾



B **3SB24 55-0F** 1 unit 0.009

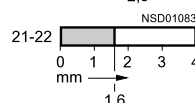
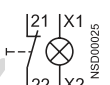
Switch block and lampholder, wedge base W2 x 4.6 d

1 NO



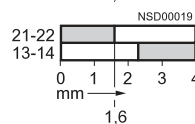
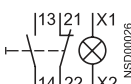
B **3SB24 55-1B** 1 unit 0.009

1 NC → ¹⁾



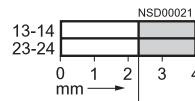
B **3SB24 55-1C** 1 unit 0.009

1 NO + 1 NC → ¹⁾



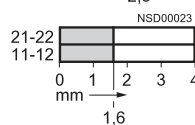
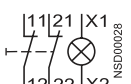
B **3SB24 55-1J** 1 unit 0.010

1 NO + 1 NO



B **3SB24 55-1E** 1 unit 0.010

1 NC + 1 NC → ¹⁾



C **3SB24 55-1F** 1 unit 0.010

1) Positive opening according to IEC 60947-5-1, Appendix K.

Pushbuttons and Indicator Lights

16 mm Nominal Diameter

Accessories and spare parts
Insert labels and insert caps

Overview

Clear pushbuttons, illuminated pushbuttons and indicator lights can be fitted with insert labels and caps for identification purposes.

The insert labels and insert caps are made of a milky-transparent plastic with black lettering; they can be fitted in any 90° angle.

Inscription

The lettering has uppercase initial letters. The symbols, including those not listed in the catalog, are in accordance with DIN Report 4.

For customized labels, see Options.

Selection and ordering data

Inscription	Symbols with number acc. to DIN Report 4	DT	Insert labels for pushbuttons and illuminated pushbut- tons, flat	PS*	Weight per PU, approx.	DT	Insert caps for pushbuttons and illuminated pushbut- tons, raised	PS*	Weight per PU, approx.	
										
			Order No.		kg		Order No.		kg	
For self-inscription										
Without inscription	-	B	3SB29 01-4AA	10 units	0.100	B	3SB29 01-5AA	10 units	0.100	
With inscription										
Ein		B	3SB29 01-4AB	10 units	0.100	B	3SB29 01-5AB	10 units	0.100	
Aus		B	3SB29 01-4AC	10 units	0.100	B	3SB29 01-5AC	10 units	0.100	
Auf		B	3SB29 01-4AD	10 units	0.100	B	3SB29 01-5AD	10 units	0.100	
Ab		B	3SB29 01-4AE	10 units	0.100		-			
Vor		B	3SB29 01-4AF	10 units	0.100	B	3SB29 01-5AF	10 units	0.100	
Zurück		B	3SB29 01-4AG	10 units	0.100	B	3SB29 01-5AG	10 units	0.100	
Rechts		B	3SB29 01-4AH	10 units	0.100		-			
Links		B	3SB29 01-4AJ	10 units	0.100		-			
Halt		C	3SB29 01-4AK	10 units	0.100		-			
Zu		B	3SB29 01-4AL	10 units	0.100	B	3SB29 01-5AL	10 units	0.100	
Langsam		C	3SB29 01-4AN	10 units	0.100		-			
Störung		B	3SB29 01-4AQ	10 units	0.100		-			
On		C	3SB29 01-4EB	10 units	0.100		-			
Start		B	3SB29 01-4EK	10 units	0.100		-			
Stop		B	3SB29 01-4EL	10 units	0.100		-			
Reset		B	3SB29 01-4EM	10 units	0.100		-			
Test		B	3SB29 01-4EN	10 units	0.100		-			
0		B	3SB29 01-4RA	10 units	0.100	C	3SB29 01-5RA	10 units	0.100	
1		B	3SB29 01-4RB	10 units	0.100	B	3SB29 01-5RB	10 units	0.100	
2		B	3SB29 01-4RC	10 units	0.100	B	3SB29 01-5RC	10 units	0.100	
3		B	3SB29 01-4RD	10 units	0.100	B	3SB29 01-5RD	10 units	0.100	
4		B	3SB29 01-4RE	10 units	0.100	B	3SB29 01-5RE	10 units	0.100	
5		C	3SB29 01-4RF	10 units	0.100	B	3SB29 01-5RF	10 units	0.100	
6		C	3SB29 01-4RG	10 units	0.100	B	3SB29 01-5RG	10 units	0.100	
7		C	3SB29 01-4RH	10 units	0.100	B	3SB29 01-5RH	10 units	0.100	
8		C	3SB29 01-4RJ	10 units	0.100	B	3SB29 01-5RJ	10 units	0.100	
9		C	3SB29 01-4RK	10 units	0.100	B	3SB29 01-5RK	10 units	0.100	
Symbol for ON/OFF										
O (Off)		No. 15	B	3SB29 01-4MB	10 units	0.100	C	3SB29 01-5MB	10 units	0.100
I (On)		No. 16	B	3SB29 01-4MC	10 units	0.100	B	3SB29 01-5MC	10 units	0.100
II (On)		-	C	3SB29 01-4MD	10 units	0.100		-		

* This quantity or a multiple thereof can be ordered

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Pushbuttons and Indicator Lights

16 mm Nominal Diameter

Accessories and spare parts

Insert labels and insert caps

Inscription	Symbols with number acc. to DIN Report 4	DT	Insert labels for pushbuttons and illuminated pushbuttons, flat	PS*	Weight per PU, approx.	DT	Insert caps for pushbuttons and illuminated pushbuttons, raised	PS*	Weight per PU, approx.
									
			Order No.		kg		Order No.		kg
Equipment symbols									
Electric motor		No. 42	B	3SB29 01-4PA	10 units	0.100	-		
Horn		No. 155	B	3SB29 01-4PB	10 units	0.100	-		
Pump		No. 695	C	3SB29 01-4PD	10 units	0.100	-		
Coolant pump		No. 713	B	3SB29 01-4PE	10 units	0.100	-		
Motion symbols									
Motion in direction of arrow		No. 28	B	3SB29 01-4NA	10 units	0.100	B	3SB29 01-5NA	10 units 0.100
Motion in direction of arrow		No. 28 b	B	3SB29 01-4NB	10 units	0.100	B	3SB29 01-5NB	10 units 0.100
Clockwise rotation		No. 100	B	3SB29 01-4NC	10 units	0.100	-		
Anticlockwise rotation		No. 114	B	3SB29 01-4ND	10 units	0.100	-		
Fast motion		No. 1919	C	3SB29 01-4NE	10 units	0.100	-		
Increase (plus)		No. 40	B	3SB29 01-4NG	10 units	0.100	B	3SB29 01-5NG	10 units 0.100
Decrease (minus)		No. 41	B	3SB29 01-4MC	10 units	0.100	B	3SB29 01-5MC	10 units 0.100
Control symbols									
Clamp		No. 259	B	3SB29 01-4QB	10 units	0.100	B	3SB29 01-5QB	10 units 0.100
Release		No. 169	B	3SB29 01-4QC	10 units	0.100	B	3SB29 01-5QC	10 units 0.100
Brake off		No. 266	C	3SB29 01-4QE	10 units	0.100	-		
Lock		No. 46	C	3SB29 01-4QF	10 units	0.100	-		
Unlock		No. 45	B	3SB29 01-4QG	10 units	0.100	C	3SB29 01-5QG	10 units 0.100
On/Off, momentary contact		No. 19	B	3SB29 01-4QJ	10 units	0.100	-		
Manual operation		No. 35	B	3SB29 01-4QK	10 units	0.100	-		
Automatic sequence		No. 267	B	3SB29 01-4QL	10 units	0.100	B	3SB29 01-5QL	10 units 0.100
Customized inscriptions									
Further symbols according to DIN Report 4			C	3SB29 01-4AZ K3Y	1 unit		C	3SB29 01-5AZ K3Y	1 unit
Please add the short code "K3Y" to the Order No. and also specify the serial number in accordance with DIN Report 4.									
Any inscription or symbol			C	3SB29 01-4AZ K0Y, K1Y, K2Y or K9Y	1 unit		C	3SB29 01-5AZ K0Y, K1Y, K2Y or K9Y	1 unit
1 line of text with up to 6 characters of 3 mm in height. Please add the appropriate order code onto the Order No. and specify the inscription or the symbol required.									

Pushbuttons and Indicator Lights

16 mm Nominal Diameter

Accessories and spare parts Insert labels and insert caps

Inscription	Symbols with number acc. to DIN Report 4	DT	Insert caps for indicator lights	PS*	Weight per PU, approx.
					
			Order No.		kg
For self-inscription					
Without inscription	-	B	3SB29 01-7AA	10 units	0.100
With inscription					
Fault	-	B	3SB29 01-7AQ	10 units	0.100
Symbols					
Pump		No. 695	B	3SB29 01-7PD	10 units 0.100
Release		No. 169	B	3SB29 01-7QC	10 units 0.100
Manual operation		No. 35	B	3SB29 01-7QK	10 units 0.100
Customized inscription					
Further symbols according to DIN Report 4			C	3SB29 01-7AZ K3Y	1 unit
Please add the short code "K3Y" to the Order No. and also specify the serial number in accordance with DIN Report 4.					
Any inscription or symbol			C	3SB29 01-7AZ K0Y, K1Y, K2Y or K9Y	1 unit
1 line of text with up to 6 characters of 3 mm in height. Please add the appropriate order code onto the Order No. and specify the inscription or the symbol required.					

Options

Customized inscription

Labels and caps can be inscribed with text and symbols not listed in the ordering data. One line with up to 6 letters is possible, with 3 mm letter height.

Supplement the Order No. with the following Order Code:

- Text in upper/lowercase: **K0Y**
- Text in uppercase: **K1Y**
- Text in lowercase: **K2Y**
- Symbols to DIN Report 4: **K3Y**
- Inscription or symbols according to order form supplement: **K9Y**

When ordering, specify the required inscription in plain text in addition to the order number and order code. In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.

For special symbols (short code K9Y), a CAD drawing in DXF format should be submitted.

Ordering examples

3SB29 01-4AZ

K1Y

Z = Pump

3SB29 01-4AZ

K3Y

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Pushbuttons and Indicator Lights

16 mm Nominal Diameter

Accessories and spare parts

Name plates

Overview

The name plates consist of a black molded-plastic label holder and labeling plate (silver with black letters) for sticking into the label holder.

Note insert dimensions!

Inscription

The lettering is lowercase with uppercase initial letters. The symbols, including those not listed in the catalog, are in accordance with DIN Report 4.

Selection and ordering data

Inscription	Symbols with number acc. to DIN Report 4	DT	Order No.	PS*	Weight per PU, approx. kg	
Label holder						
	Label holder for labeling plate ¹⁾		B 3SB29 02-0AB	10 units	0.100	
Labeling plates self-adhesive 9.5 mm × 18.5 mm						
	Blank	▶	3SB29 01-2AA	10 units	0.100	
	On	B	3SB29 01-2AB	10 units	0.100	
	Off	B	3SB29 01-2AC	10 units	0.100	
	Open	B	3SB29 01-2AD	10 units	0.100	
	Close	B	3SB29 01-2AL	10 units	0.100	
	Forward	B	3SB29 01-2AF	10 units	0.100	
	Backward	B	3SB29 01-2AG	10 units	0.100	
	Fast	C	3SB29 01-2AM	10 units	0.100	
	Slow	C	3SB29 01-2AN	10 units	0.100	
	Operation	B	3SB29 01-2AP	10 units	0.100	
	Fault	B	3SB29 01-2AQ	10 units	0.100	
	Set up	B	3SB29 01-2AR	10 units	0.100	
	On	B	3SB29 01-2EB	10 units	0.100	
	Off	B	3SB29 01-2EC	10 units	0.100	
	Start	B	3SB29 01-2EL	10 units	0.100	
	Reset	B	3SB29 01-2EM	10 units	0.100	
	Fault	B	3SB29 01-2EW	10 units	0.100	
	Hand Auto	B	3SB29 01-2BA	10 units	0.100	
	Hand 0 Auto	B	3SB29 01-2BE	10 units	0.100	
	Man 0 Auto	B	3SB29 01-2ET	10 units	0.100	
	Symbols					
	O (Off)	No. 15	B	3SB29 01-2MB	10 units	0.100
	I (On)	No. 16	B	3SB29 01-2MC	10 units	0.100
	O I (horizontal)	-	B	3SB29 01-2MF	10 units	0.100
	Motion in direction of arrow	No. 28	C	3SB29 01-2NA	10 units	0.100
Labels with labeling and symbols other than those listed above 2 lines of text with 11 characters each. Font size: 4 mm (1 line) or 3 mm (2 lines)			C 3SB29 01-2XZ K0Y, K1Y, K2Y, K3Y or K9Y	1 unit		

¹⁾ Must not be used with the 3SB2...-1AC01 EMERGENCY-STOP mushroom pushbutton.

Options

Customized inscription

The labels can be inscribed with text and symbols not listed in the ordering data. Two lines of 11 characters are permitted with a font size of 4 mm (1 line) or 3 mm (2 lines).

Supplement the Order No. with the following Order Code:

- Text in upper/lowercase: **K0Y**
- Text in uppercase: **K1Y**
- Text in lowercase: **K2Y**
- Symbols with number to DIN Report 4: **K3Y**
- Inscription or symbols according to order form supplement: **K9Y**

When ordering, specify the required inscription in plain text in addition to the order number and order code. In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.

For special symbols (short code K9Y), a CAD drawing in DXF format can be submitted.

Ordering examples

3SB29 01-2XZ
K1Y
Z = Pump

3SB29 01-2XZ
K3Y
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Pushbuttons and Indicator Lights

16 mm Nominal Diameter

Accessories and spare parts Mounting parts and spare parts

Selection and ordering data

Version	Lamp voltage	Color	DT	Order No.	PS*	Weight per PU, approx.
	V					kg
		Button, flat for pushbuttons				
		black	B	3SB29 10-0AB	10 units	0.100
		red	B	3SB29 10-0AC	10 units	0.100
		yellow	B	3SB29 10-0AD	10 units	0.100
		green	B	3SB29 10-0AE	10 units	0.100
		blue	B	3SB29 10-0AF	10 units	0.100
		white	B	3SB29 10-0AG	10 units	0.100
		clear	B	3SB29 10-0AH	10 units	0.100
		Button, flat for illuminated pushbuttons				
		red	B	3SB29 10-0CC	10 units	0.100
		yellow	B	3SB29 10-0CD	10 units	0.100
		green	B	3SB29 10-0CE	10 units	0.100
		blue	B	3SB29 10-0CF	10 units	0.100
		white	B	3SB29 10-0AG	10 units	0.100
		clear	B	3SB29 10-0AH	10 units	0.100
		Button, raised for pushbuttons				
		black	B	3SB29 10-0BB	1 unit	0.001
		red	B	3SB29 10-0BC	1 unit	0.001
		yellow	B	3SB29 10-0BD	1 unit	0.001
		clear	B	3SB29 10-0BH	1 unit	0.001
		Button, raised for illuminated pushbuttons				
		red	B	3SB29 10-0DC	1 unit	0.001
		yellow	B	3SB29 10-0DD	1 unit	0.001
		Screw lens with concentric rings				
		red	▶	3SB29 10-1AC	10 units	0.100
		yellow	▶	3SB29 10-1AD	10 units	0.100
		green	▶	3SB29 10-1AE	10 units	0.100
		blue	B	3SB29 10-1AF	10 units	0.100
		white	▶	3SB29 10-1AG	10 units	0.100
		clear	B	3SB29 10-1AH	10 units	0.100
		Screw lens smooth, for inscription with insert cap				
		red	B	3SB29 10-1BC	10 units	0.100
		yellow	B	3SB29 10-1BD	10 units	0.100
		Incandescent lamp Wedge base W2 x 4.6 d, 1.0 W				
		6	B	3SB29 08-1AA	10 units	0.100
		12	B	3SB29 08-1AB	10 units	0.100
		24	▶	3SB29 08-1AC	10 units	0.100
		30	B	3SB29 08-1AD	10 units	0.100
		48	B	3SB29 08-1AE	10 units	0.001
		60	B	3SB29 08-1AF	10 units	0.001
		LED, super-bright Wedge base W2 x 4.6 d				
		DC 24				
		red	B	3SB39 01-1SB	10 units	0.001
		yellow	B	3SB39 01-1RB	10 units	0.001
		green	B	3SB39 01-1TB	10 units	0.001
		white	B	3SB39 01-1UB	10 units	0.001
		blue	B	3SB29 08-1BD	10 units	0.001

Pushbuttons and Indicator Lights

16 mm Nominal Diameter

Accessories and spare parts

Mounting parts and spare parts

	Version	DT	Order No.	PS*	Weight per PU, approx.
					kg
	Single frame for square design	▶	3SB29 02-0AA	10 units	0.100
	Disassembly tool for holders and lamp sockets with holders	▶	3SB29 08-2AA	1 unit	0.015
	Lamp extractor for lamps with sockets W2 x 4.6 d	▶	3SB29 08-2AB	250 units	0.003
	Mounting tool for buttons and screw lenses	▶	3SB29 08-2AC	1 unit	0.012
	Name plate, yellow, Ø 50 mm, as backing plate for EMERGENCY-STOP, self-adhesive • blank • with inscription "NOT-AUS"	▶	3SB29 08-2AF	1 unit	0.001
		▶	3SB29 08-2AG	1 unit	0.001
	Key for CES key-operated switch, lock No. SB2	B	3SB29 08-2AJ	1 unit	0.004
	Blanking plug black molded plastic (IP 65 degree of protection)	B	3SB29 08-3AA	1 unit	0.005
	Protective cap, clear silicone, for pushbuttons with flat and raised buttons	B	3SB29 08-3AB	1 unit	0.002
	Plug-in sleeve for flat connectors 2.8 x 0.8 mm, cross-section 0.5 ... 1.5 mm ²	▶	3SB29 08-8AA	250 units	0.029
	Insulation sleeve for flat connectors, connection from the front	▶	3SB29 08-8AB	250 units	0.029
	Complete connector ¹⁾ for connecting switch blocks and lampholders (up to 10 connections). Provides safety from finger-touch acc. to DIN VDE 0106 Part 100 and VBG 4.	▶	3SB29 08-8AD	1 unit	0.005
	Plug-in sleeve with locating spring for latching in complete connector	B	3SB29 08-8AE	10 units	0.030
	Crimping pliers KRBC 0560 for plug-in sleeves (both designs)		Lapp GmbH Kabelwerk Gewerbestraße 70565 Stuttgart Tel: 0049 7 11/78 38-02 Fax: 0049 7 11/78 38-401 (Order No. 61790950)		

1) Required plug-in sleeves must be ordered separately.

Pushbuttons and Indicator Lights

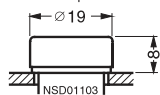
16 mm Nominal Diameter

Project planning aids

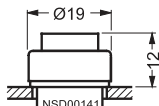
Dimension drawings

Actuators

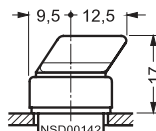
Pushbutton or illuminated pushbutton with flat pushbutton



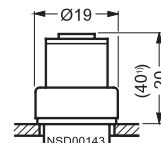
Pushbutton or illuminated pushbuttons with raised button



Selector switch

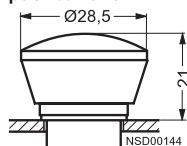


CES key-operated switch

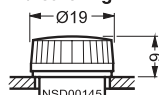


* with key

EMERGENCY-STOP mushroom pushbuttons

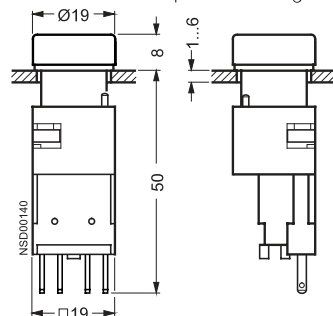


Indicator light



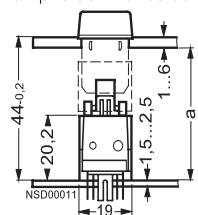
Switch blocks with tab connection

Pushbutton and switch block with holder for front panel mounting



Switch blocks with soldering pins for use on printed circuit boards

Illuminated pushbutton with switch block and lampholder with solder pins



Length **a** of spacer bolts **a** = 44^{-0.2} minus front plate thickness.

When using name plates, the length **a** is reduced by 0.8 mm.

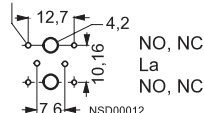
To avoid bending of the PCB when the actuator is operated, sufficient spacers must be provided spaced as shown in the table below:

PCB thickness	Max. distance between spacers
1.5 mm	80 mm
2.5 mm	150 mm
When using EMERGENCY-STOP buttons	generally 50 mm

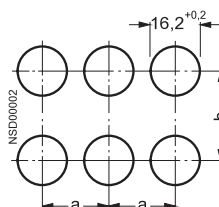
These details are based on epoxy resin glass fiber mat.

Solder pin spacing

Solder terminal $\varnothing 1.3^{+0.1}$



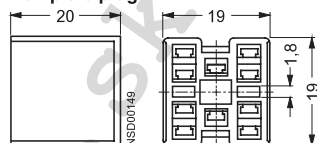
Mounting dimensions



Minimum distance	a	b
Round design	19	19
Square design without labeling plate	21	21
Round and square designs with labeling plates	21	32
For 2 selector switches and 3 switch positions, maintained contact, side by side	21	21

Accessories

Complete plug



Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

General data

Overview

SIGNUM is a new range of plastic and metal control devices for front plate mounting and rear wire connection.

SIGNUM is of modern industrial design with a very flat construction and can be installed rapidly by a single person.

In addition, SIGNUM Metallic is designed for the world market with a high degree of protection according to IP67 and NEMA 4.

Standards

IEC 60947-1, EN 60947-1 (VDE 0660 Part 100).

IEC 60947-5-1, EN 60947-5-1 (VDE 0660 Part 200).

Design

SIGNUM can be supplied

- In molded plastic in a flat, round and square design, as well as
- In metal in a round design.

A combination of membrane keyboards and 3SB3 devices in plastic supports the flat appearance. The flat construction makes cleaning easy.

The operating surfaces of the pushbuttons and indicator lights are concave. The lenses of the indicator lights are convex.

AS-Interface solutions

The SIGNUM 3SB3 control and signaling devices can be connected to the AS-Interface communication system quickly and safely with the help of various solutions.

The following solutions are available:

- AS-Interface enclosure (with 1 to 6 command points),
- AS-Interface EMERGENCY-STOP,
- AS-Interface front panel module (for 4 command points).

For selection and ordering data as well as detailed information, see Catalog IK PI.

Design

One command point comprises an actuating element or lens assembly in front of the control panel as well as a holder for fixing and switch blocks and/or lampholder behind the control panel.

The holder for the round version can be turned and can therefore be used for control panel depths of 1 to 4 mm or 3 to 6 mm.

The control panel depth of 1 to 4 mm can be compensated with the holder for the square design.

The normal version can be fitted with two switch blocks.

When three switch blocks or one lampholder and two switch blocks are required, an additional holder must be plugged into the operating element. For actuating a central switch block when using a selector switch, key-operated switch and on-off push-button, a holder with pressure supports is required.

Complete units are offered for the most commonly used applications.

Holder

The holder is set to a switchboard thickness of 1 to 4 mm when delivered and is placed in the direction of the arrow ↑ 1–4 mm ↑ on the actuator/indicator from the back. The fixing screw is located underneath, on the right.

For a switchboard thickness of 3 to 6 mm, the holder is reversed and mounted in the direction of the arrow at ↑ 3–6 mm ↑ and the fixing screw is located on the upper right. In this case, the fixing screw must be rotated anticlockwise to its limit before mounting the holder.

When label holders, protective caps or similar accessories are used, the greatest permissible panel thickness must be reduced by wall thickness of the accessory component.

Switch blocks and lampholders

The switch blocks are fitted with a slow-action contact (1 NO contact or 1 NC contact) with double operating contacts. These ensure a high switching reliability even with small voltages and currents, such as 5 V/1 mA. They are suitable for use in solid-state systems as well as conventional controls.

The switch contacts of the NC contact are positively driven.

For illuminated elements, lampholders with an integrated LED or with a base for replaceable bulbs can be supplied.

Switch blocks and lampholders feature terminal designations in accordance with EN 50013.

Mounting

SIGNUM devices are easily and rapidly connected:

- Actuators or indicator lights are positioned in the opening of the front panel from the front
- Position the holder from the rear
- Tighten the screw on the holder
- Snap on the switch block or the lampholder directly onto the operating mechanism from the back

Terminals

The following types are available

- Screw terminal connection
- Spring-loaded terminals
- Solder terminals (0.8 mm × 0.8 mm solder pins)

The devices with screw connection are designed with the SIGUT connection system. The open terminals, screws that cannot be lost, funnel-shaped wiring openings and screwdriver fed openings save time when connecting and make it possible that motorized screwdrivers are used.

The devices with spring-loaded terminals can be connected quickly; and when single-pole blocks are used, the command points can be butt-mounted.

Inscription

Direct inscription using a laser or by means of insert labels or name plates.

Enclosure

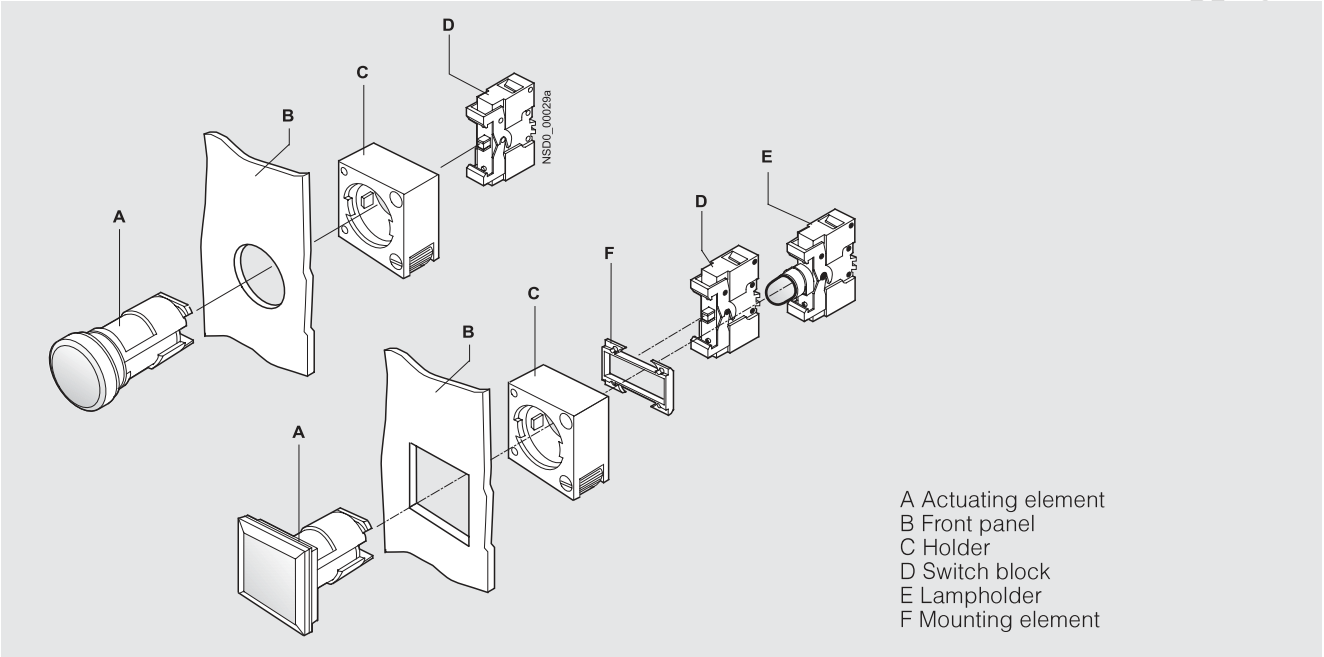
Plastic enclosures with 1, 2, 3, 4 or 6 actuators are available for the round model. Enclosures with more than 6 actuators can be supplied upon request. They are suitable for the round and square models.

Pushbuttons and Indicator Lights

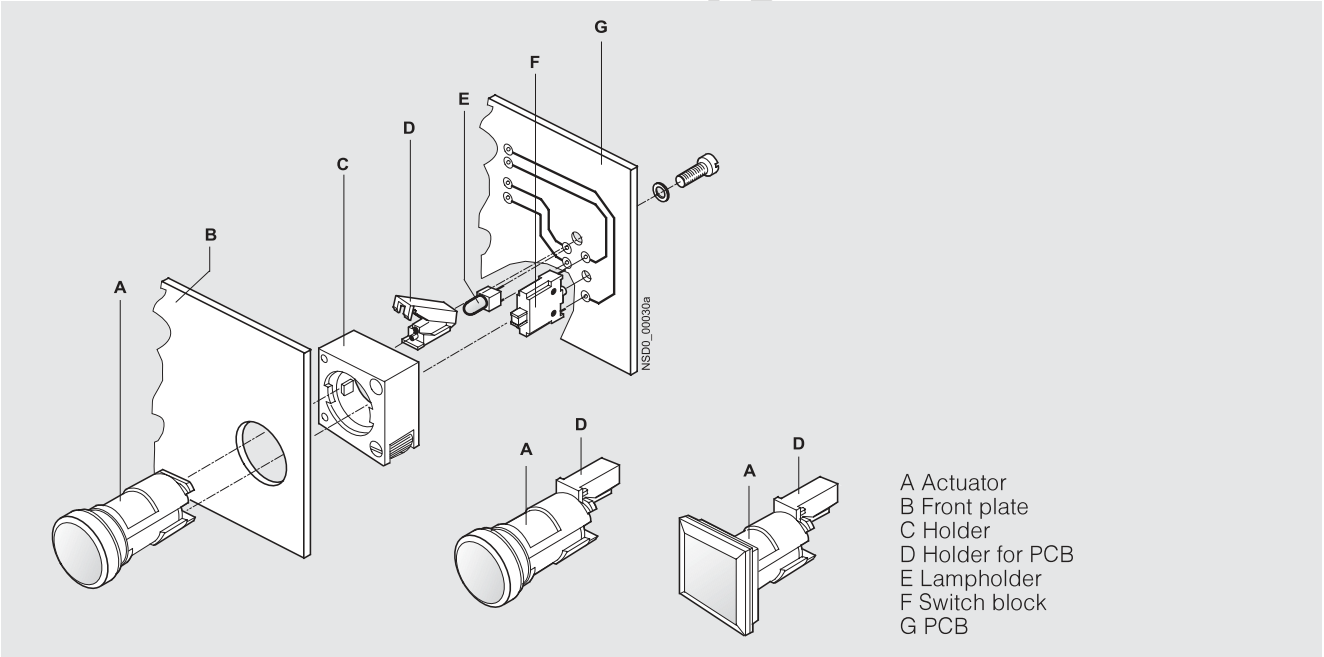
SIGNUM 22 mm Nominal Diameter

General data

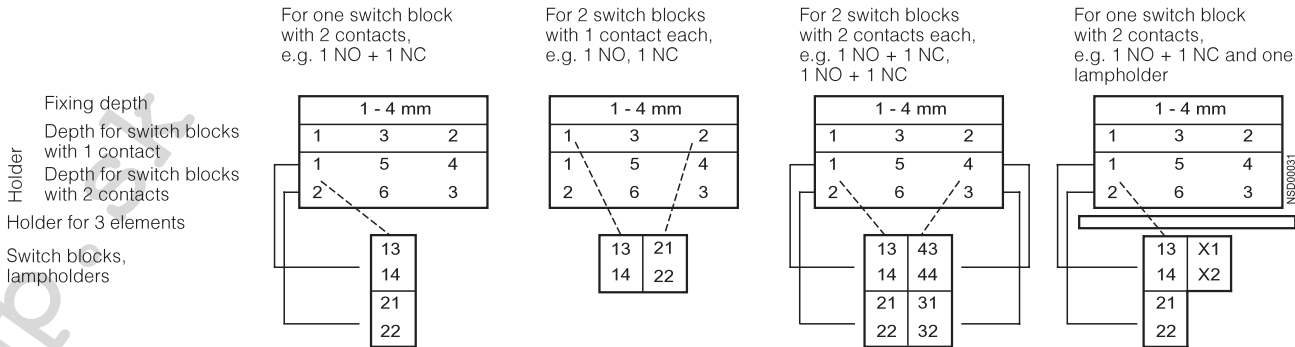
Front plate mounting



Used on printed-circuit boards



Contact assignment



Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

General data

Technical specifications

Data acc. to IEC/EN 60947-5-1, IEC/EN 60947-5-5		
Rated insulation voltage U_i For pollution severity according to IEC 60947-1	Class 3	
• Components with screw connection and spring-loaded terminals	400 V	
• Components with solder pins	250 V	
Rated impulse withstand voltage U_{imp}		
• Screw connection, spring-loaded terminals	6 kV	
• Soldered connection	4 kV	
Conventional free-air thermal current I_{th}	10 A	
Rated operating current I_e at rated operating voltage U_e		
• Alternating current 50/60 Hz, AC-12 - Screw connection and spring-loaded terminals / solder pins	At U_e 24 V 48 V 110 V 230 V 400 V	I_e 10 A / 10 A 10 A / 10 A 10 A / 10 A 10 A / 10 A 10 A / –
• Alternating current 50/60 Hz, AC-15 - Screw connection and spring-loaded terminals / solder pins	At U_e 24 V 48 V 110 V 230 V 400 V	I_e 6 A / 4 A 6 A / 4 A 6 A / 4 A 6 A / 4 A 3 A / –
• Direct current DC-12 - Screw connection and spring-loaded terminals and solder pins	At U_e 24 V 48 V 110 V 230 V	I_e 10 A 5 A 2.5 A 1 A
• Direct current DC-13 - Screw connection and spring-loaded terminals and solder pins	At U_e 24 V 48 V 110 V 230 V	I_e 3 A 1.5 A 0.7 A 0.3 A
Contact stability Test voltage/test current	5 V/1 mA	
Short-circuit protection completely weld-free according to IEC 60947-5-1		
• DIAZED fuse links, operational class gL/gG	10 A TDz, 16 A Dz	
• Miniature circuit-breaker with C characteristic according to IEC 60898 (VDE 0641)	10 A	
Mechanical endurance		
• Pushbuttons and switch blocks	10 × 10 ⁶ operating cycles	
• Actuators, rotary or maintained contact	3 × 10 ⁵ operating cycles	
• Illuminated pushbuttons	3 × 10 ⁶ operating cycles	
Electrical endurance		
• For operational class AC-15 with 3RT10 15 to 3RT10 26 contactors	10 × 10 ⁶ operating cycles	
• With operational class DC-12, DC-13	The endurance life of the contacts is not only dependent on the breaking current but also on the voltage, the inductivity of the current circuit and the switching speed.	
Operating frequency	1000 make-break operations per hour	
Climatic withstand capability acc. to DIN 50017	Climate-proof KTW24; suitable for marine applications	
Ambient temperature		
• During operation, non-illuminated devices and complete with LED	–25 to +70 °C	
• During operation, devices with incandescent lamp	–25 to +60 °C	
• During storage, transport	–40 to +80 °C	
Degree of protection acc. to IEC 60529 (VDE 0470 Part 1)		
• Connection of switch blocks and lampholders behind the front panel	IP20	
• Contact chambers of the switch blocks behind the front panel	IP40	
• Plastic actuators and indicators	IP66; IP67 with protective caps	
• Plastic on-off pushbuttons	IP65	
• Metal actuators and indicators	IP67 and NEMA Type 4	
• Molded-plastic enclosure	IP65	
• Metal enclosure	IP67 and NEMA Type 4	
Lampholders		
• Screw connection, spring-loaded terminals	For lamps with BA 9s base; incandescent, glow and LED lamps	
• Soldered connection	For lamps with wedge base W2 × 4.6 d; glow and LED lamps	

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

General data

Data acc. to IEC/EN 60947-5-1, IEC/EN 60947-5-5	
Conductor cross-sections	
- Screw connection - Finely stranded, with end sleeves to DIN 46228 - Solid - Solid with end sleeves to DIN 46228 - Solid or stranded - Spring-loaded terminal - Solid or stranded, without end sleeves - Finely stranded, with end sleeves to DIN 46228 - Solid or stranded - Soldered connection	$2 \times (0.5 \dots 1.5) \text{ mm}^2$ $2 \times (1 \dots 2.5) \text{ mm}^2$ $2 \times (0.5 \dots 0.75) \text{ mm}^2$ $2 \times \text{AWG } 18 \dots 14$ $2 \times (0.25 \dots 1.5) \text{ mm}^2$ $2 \times (0.25 \dots 0.75) \text{ mm}^2$ $2 \times \text{AWG } 24 \dots 16$ Solder pins $0.8 \text{ mm} \times 0.8 \text{ mm}$
Tightening torque	
- Screw on holder - Terminal screws	max. 1 Nm 0.8 Nm
Terminal designations to EN 50013	Digit on the holder, function digit on the switch block
Device identification	With snap-on label
Safety measures	
- Plastic - Metal version	Safety requirements are met automatically when the actuators and lens assemblies are mounted on metal front plates and enclosures. When mounted in insulated enclosures, the "protective insulation" safety requirements are met. Grounding is necessary for operation on protective extra-low voltage.
Touch protection (screw-type, spring-loaded terminals)	Finger-safe to VDE 0660, Part 514 and BGV A2
Shock resistance according to IEC 60068, Part 2-27	
For shock duration of	11 ms
For shock type	Half-sine
- Devices without incandescent lamp - Devices with incandescent lamp	$\leq 50 \text{ g}$ $\leq 30 \text{ g}$
Vibration resistance according to IEC 60068, Part 2-6	
For frequency of	20 ... 200 Hz
Acceleration	5 g
Data acc. to UL and CSA	
Rated voltage	
- Switch blocks - Lampholders - With lamp with BA 9s base - With lamp with wedge base - With integrated LED	AC 300 V AC 125 V; 2.5 W AC 60 V; 1 W AC/DC 24 V, AC 110 V, AC 230 V
Continuous current	10 A
Switching capacity	A 300; R 300; A 600 same polarity

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, round
Complete unit combinations

Selection and ordering data

Version	Rated voltage for lamp	Color of actuator	Contacts for front plate mounting	DT	Order No.	PS*	Weight per PU, approx.
	V						kg
		Pushbutton with flat button	black	1 NO	▶ 3SB32 02-0AA11	1 unit	0.040
			black	1 NC	B 3SB32 03-0AA11	1 unit	0.040
			red	1 NC	▶ 3SB32 03-0AA21	1 unit	0.040
			yellow	1 NO	B 3SB32 02-0AA31	1 unit	0.040
			green	1 NO	▶ 3SB32 02-0AA41	1 unit	0.040
			blue	1 NO	B 3SB32 02-0AA51	1 unit	0.040
			white	1 NO	▶ 3SB32 02-0AA61	1 unit	0.040
			black	1 NO + 1 NC	B 3SB32 01-0AA11	1 unit	0.047
			red	1 NO + 1 NC	B 3SB32 01-0AA21	1 unit	0.047
			yellow	1 NO + 1 NC	B 3SB32 01-0AA31	1 unit	0.047
			green	1 NO + 1 NC	B 3SB32 01-0AA41	1 unit	0.047
			blue	1 NO + 1 NC	B 3SB32 01-0AA51	1 unit	0.047
			white	1 NO + 1 NC	B 3SB32 01-0AA61	1 unit	0.047
	AC/DC 24	Illuminated pushbutton with flat button with integrated LED	red ¹⁾	1 NC	▶ 3SB32 46-0AA21	1 unit	0.052
			yellow ¹⁾	1 NO	B 3SB32 45-0AA31	1 unit	0.050
			green ¹⁾	1 NO	▶ 3SB32 45-0AA41	1 unit	0.051
			blue ¹⁾	1 NO	B 3SB32 45-0AA51	1 unit	0.050
			white	1 NO	B 3SB32 45-0AA61	1 unit	0.051
			clear ¹⁾	1 NO	▶ 3SB32 45-0AA71	1 unit	0.051
	AC/DC 24		red ¹⁾	1 NO + 1 NC	B 3SB32 47-0AA21	1 unit	0.058
			yellow ¹⁾	1 NO + 1 NC	B 3SB32 47-0AA31	1 unit	0.058
			green ¹⁾	1 NO + 1 NC	B 3SB32 47-0AA41	1 unit	0.058
			blue ¹⁾	1 NO + 1 NC	B 3SB32 47-0AA51	1 unit	0.058
			white	1 NO + 1 NC	B 3SB32 47-0AA61	1 unit	0.057
			clear ¹⁾	1 NO + 1 NC	B 3SB32 47-0AA71	1 unit	0.058
	AC 110		red ¹⁾	1 NC	B 3SB32 50-0AA21	1 unit	0.050
			yellow ¹⁾	1 NO	B 3SB32 57-0AA31	1 unit	0.051
			green ¹⁾	1 NO	B 3SB32 57-0AA41	1 unit	0.051
			blue ¹⁾	1 NO	B 3SB32 57-0AA51	1 unit	0.051
			white	1 NO	B 3SB32 57-0AA61	1 unit	0.051
			clear ¹⁾	1 NO	B 3SB32 57-0AA71	1 unit	0.050
	AC 110		red ¹⁾	1 NO + 1 NC	B 3SB32 51-0AA21	1 unit	0.058
			yellow ¹⁾	1 NO + 1 NC	B 3SB32 51-0AA31	1 unit	0.058
			green ¹⁾	1 NO + 1 NC	B 3SB32 51-0AA41	1 unit	0.058
			blue ¹⁾	1 NO + 1 NC	C 3SB32 51-0AA51	1 unit	0.060
			white	1 NO + 1 NC	B 3SB32 51-0AA61	1 unit	0.058
			clear ¹⁾	1 NO + 1 NC	B 3SB32 51-0AA71	1 unit	0.058
	AC 230		red ¹⁾	1 NC	▶ 3SB32 54-0AA21	1 unit	0.051
			yellow ¹⁾	1 NO	B 3SB32 53-0AA31	1 unit	0.051
			green ¹⁾	1 NO	▶ 3SB32 53-0AA41	1 unit	0.052
			blue ¹⁾	1 NO	B 3SB32 53-0AA51	1 unit	0.051
			white	1 NO	B 3SB32 53-0AA61	1 unit	0.051
			clear ¹⁾	1 NO	▶ 3SB32 53-0AA71	1 unit	0.052
	AC 230		red ¹⁾	1 NO + 1 NC	B 3SB32 55-0AA21	1 unit	0.058
			yellow ¹⁾	1 NO + 1 NC	B 3SB32 55-0AA31	1 unit	0.058
			green ¹⁾	1 NO + 1 NC	B 3SB32 55-0AA41	1 unit	0.058
			blue ¹⁾	1 NO + 1 NC	B 3SB32 55-0AA51	1 unit	0.058
			white	1 NO + 1 NC	B 3SB32 55-0AA61	1 unit	0.058
			clear ¹⁾	1 NO + 1 NC	B 3SB32 55-0AA71	1 unit	0.058
		Illuminated pushbutton with flat button with BA 9s lampholder, without lamp	red ¹⁾	1 NC	B 3SB32 07-0AA21	1 unit	0.050
			yellow ¹⁾	1 NO	B 3SB32 06-0AA31	1 unit	0.050
			green ¹⁾	1 NO	B 3SB32 06-0AA41	1 unit	0.050
			blue ¹⁾	1 NO	B 3SB32 06-0AA51	1 unit	0.050
			white	1 NO	B 3SB32 06-0AA61	1 unit	0.050
			clear ¹⁾	1 NO	B 3SB32 06-0AA71	1 unit	0.050
			red ¹⁾	1 NO + 1 NC	B 3SB32 05-0AA21	1 unit	0.057
			yellow ¹⁾	1 NO + 1 NC	B 3SB32 05-0AA31	1 unit	0.056
			green ¹⁾	1 NO + 1 NC	B 3SB32 05-0AA41	1 unit	0.057
			blue ¹⁾	1 NO + 1 NC	B 3SB32 05-0AA51	1 unit	0.056
			white	1 NO + 1 NC	B 3SB32 05-0AA61	1 unit	0.057
			clear ¹⁾	1 NO + 1 NC	B 3SB32 05-0AA71	1 unit	0.057

1) Inscription is possible by inserting a label.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, round
Complete unit combinations

Version	Color of actuator	Contacts for front plate mounting	DT	Order No.	PS*	Weight per PU, approx. kg
	red	1 NC 1 NO + 1 NC	▶ B	3SB32 03-1CA21 3SB32 01-1CA21	1 unit 1 unit	0.052 0.058
Mushroom push-pull-button						

Mushroom push-pull-button

EMERGENCY-STOP control devices according to EN 418 with yellow name plate, Ø 80 mm, labeled.
Can also be used with 3TK28 contactor safety combinations (see Section 11)

	red	1 NC 1 NO + 1 NC	▶ 1) B ▶ 1) B	3SB32 03-1HA20 3SB32 01-1HA20	1 unit 1 unit	0.072 0.078
EMERGENCY-STOP mushroom pushbutton						

EMERGENCY-STOP
mushroom pushbutton

1) Positive opening according to IEC 60947-5-1, Appendix K.

Version	Color of actuator / Lock No.	Contacts for front plate mounting	DT	Order No.	PS*	Weight per PU, approx. kg
	black	1 NO 1 NO + 1 NC	▶ B	3SB32 02-2KA11 3SB32 01-2KA11	1 unit 1 unit	0.044 0.051
Selector switch, 2 switch positions switching sequence O-I 50° operating angle latching						
	black black	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	▶ B	3SB32 10-2DA11 3SB32 08-2DA11	1 unit 1 unit	0.054 0.067
Selector switches, 3 switch positions switching sequence I-O-II 2 × 50° operating angle latching						
	black black	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	B B	3SB32 10-2EA11 3SB32 08-2EA11	1 unit 1 unit	0.054 0.068
Selector switches, 3 switch positions switching sequence I-O-II 2 × 50° operating angle momentary contact type						
	SB 30	1 NO 1 NO + 1 NC	▶ B	3SB32 02-4AD11 3SB32 01-4AD11	1 unit 1 unit	0.070 0.076
Key-operated switch, RONIS, flat, 2 switch positions switching sequence O-I 50° operating angle latching						
						
RONIS key-operated switch						

* This quantity or a multiple thereof can be ordered

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Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, round
Complete unit combinations

Version	Rated voltage of lamp	Color of lens	DT	Order No.	PS*	Weight per PU, approx.
	V					kg
 Indicator light with smooth lens	Indicator light with smooth lens with integrated LED	AC/DC 24	red	▶ 3SB32 44-6AA20	1 unit	0.038
			yellow	B 3SB32 44-6AA30	1 unit	0.038
			green	▶ 3SB32 44-6AA40	1 unit	0.038
			blue	B 3SB32 44-6AA50	1 unit	0.038
			white	B 3SB32 44-6AA60	1 unit	0.038
			clear	▶ 3SB32 44-6AA70	1 unit	0.038
	AC 110	red	B 3SB32 48-6AA20	1 unit	0.039	
		yellow	B 3SB32 48-6AA30	1 unit	0.038	
		green	B 3SB32 48-6AA40	1 unit	0.039	
		blue	B 3SB32 48-6AA50	1 unit	0.038	
		white	B 3SB32 48-6AA60	1 unit	0.038	
		clear	B 3SB32 48-6AA70	1 unit	0.038	
	AC 230	red	▶ 3SB32 52-6AA20	1 unit	0.039	
		yellow	B 3SB32 52-6AA30	1 unit	0.040	
		green	▶ 3SB32 52-6AA40	1 unit	0.039	
		blue	B 3SB32 52-6AA50	1 unit	0.039	
		white	B 3SB32 52-6AA60	1 unit	0.039	
		clear	▶ 3SB32 52-6AA70	1 unit	0.039	
Indicator light with smooth lens with BA 9s lampholder, without lamp		red	B 3SB32 04-6AA20	1 unit	0.037	
		yellow	B 3SB32 04-6AA30	1 unit	0.037	
		green	B 3SB32 04-6AA40	1 unit	0.037	
		blue	B 3SB32 04-6AA50	1 unit	0.037	
		white	B 3SB32 04-6AA60	1 unit	0.037	
		clear	B 3SB32 04-6AA70	1 unit	0.037	
 Indicator light with lens with concentric rings	Indicator light with lens with concentric rings with integrated LED	AC/DC 24	red	▶ 3SB32 44-6BA20	1 unit	0.038
			yellow	B 3SB32 44-6BA30	1 unit	0.038
			green	▶ 3SB32 44-6BA40	1 unit	0.038
			blue	B 3SB32 44-6BA50	1 unit	0.038
			white	B 3SB32 44-6BA60	1 unit	0.038
			clear	▶ 3SB32 44-6BA70	1 unit	0.038
	AC 110	red	B 3SB32 48-6BA20	1 unit	0.038	
		yellow	B 3SB32 48-6BA30	1 unit	0.038	
		green	B 3SB32 48-6BA40	1 unit	0.038	
		blue	B 3SB32 48-6BA50	1 unit	0.037	
		white	B 3SB32 48-6BA60	1 unit	0.038	
		clear	B 3SB32 48-6BA70	1 unit	0.038	
	AC 230	red	▶ 3SB32 52-6BA20	1 unit	0.039	
		yellow	B 3SB32 52-6BA30	1 unit	0.039	
		green	▶ 3SB32 52-6BA40	1 unit	0.039	
		blue	B 3SB32 52-6BA50	1 unit	0.039	
		white	B 3SB32 52-6BA60	1 unit	0.039	
		clear	▶ 3SB32 52-6BA70	1 unit	0.040	
Indicator light with lens with concentric rings with BA 9s lampholder without lamp		red	B 3SB32 04-6BA20	1 unit	0.038	
		yellow	B 3SB32 04-6BA30	1 unit	0.037	
		green	B 3SB32 04-6BA40	1 unit	0.038	
		blue	B 3SB32 04-6BA50	1 unit	0.038	
		white	B 3SB32 04-6BA60	1 unit	0.037	
		clear	B 3SB32 04-6BA70	1 unit	0.037	
Acoustic signal device, IP65 ¹⁾ continuous sound 2.4 kHz min. operating current 10 mA, min. sound pressure 80 dB/10 cm	AC/DC 24	black	B 3SB32 33-7BA10	1 unit	0.042	
	AC/DC 115		B 3SB32 34-7BA10	1 unit	0.043	
	AC/DC 230		B 3SB32 35-7BA10	1 unit	0.042	
 Acoustic signal device						
 Operating mechanism for potentiometer	Operating mechanism for potentiometer IP65 ^{1) 2)}				B 3SB10 00-7CH07	1 unit 0.030
 Pushbutton with 12 mm stroke	Pushbutton with extended stroke (12 mm), IP65 ¹⁾ for operating relays		black	B 3SB30 00-0EA11	1 unit	0.021

1) Mounting in 3SB38 enclosure is not possible.

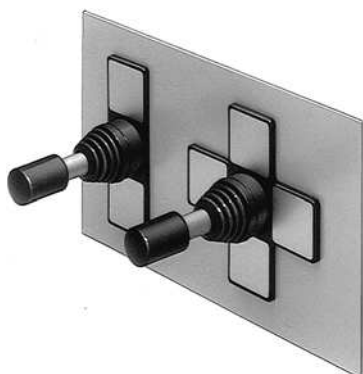
2) The potentiometer is not included in the scope of supply.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, round
Joystick switch, complete

Overview



Application

Joystick switches control auxiliary circuits permitting movements in various directions of machines and equipment.

The switches are designed for front panel mounting. They are climate-proof.

Technical specifications

Standards: IEC 60947-5-1 (VDE 0660 Part 200).

Rated operating currents for DC according to table:

Type	3SB1201-7	
Operational class	DC-12	DC-13
Rated operating current I_o at rated operating voltage U_o		
• At DC 24 V	10	5
• At DC 110 V	2	0.5
• At DC 230 V	0.5	0.2

Design

The 3SB14 00-0J switch block is used, which due to its depth cannot be built into enclosures.

Switches are available

- With 2 or 4 positions,
- Latching or momentary contact type,
- With or without mechanical interlocking.

Version with mechanical locking in the O position

The switch is unlatched with the unlatching selector switch at the front of the actuating lever.

Inscription

For labeling, a name plate is available, consisting of a black, molded-plastic label holder and two or four adhesive labeling plates of 27 mm x 27 mm in size. They can be supplied with and without inscription.

Note insert dimensions!

The lettering has uppercase initial letters. 5 lines with 11 letters each are possible, engraved lettering.

For an inscription, the following order codes must be appended to the Order No.:

"K0Y" for upper/lowercase

"K1Y" for uppercase

"K2Y" for lowercase

"K3Y" for symbol acc. to DIN Report 4

"K9Y" for inscription acc. to order form supplement

When ordering, specify the required inscription in plain text in addition to the order number and order code. For inscriptions in languages other than German, give the exact spelling and specify the language.

For symbols, in addition to the short code, specify the consecutive No. according to DIN Report 4.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, round
Joystick switch, complete

Selection and ordering data

Version	Contact travel	DT	Order No.	PS*	Weight per PU, approx.
	 contact closed		For Order No. suffixes below		
	 contact open				kg

Joystick switches, complete

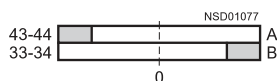


2 switch positions, 1 NO per direction

Horizontal, momentary contact type



NSD01079



Without mechanical locking in the
O position

B **3SB12 01-7DV..** 1 unit 0.065

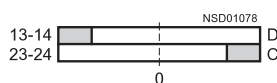
With mechanical locking in the
O position

B **3SB12 01-7DW..** 1 unit 0.065

Vertical, momentary contact type



NSD01080



Without mechanical locking in the
O position

B **3SB12 01-7FV..** 1 unit 0.065

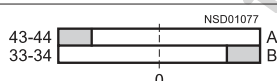
With mechanical locking in the
O position

B **3SB12 01-7FW..** 1 unit 0.065

Horizontal, latching



NSD01079



Without mechanical locking in the
O position

B **3SB12 01-7EV..** 1 unit 0.065

With mechanical locking in the
O position

B **3SB12 01-7EW..** 1 unit 0.065

Vertical, latching



NSD01080



Without mechanical locking in the
O position

B **3SB12 01-7GV..** 1 unit 0.065

With mechanical locking in the
O position

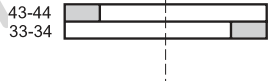
B **3SB12 01-7GW..** 1 unit 0.065

4 switch positions, 1 NO per direction

Momentary-contact type



NSD00076



Without mechanical locking in the
O position

B **3SB12 08-7JV..** 1 unit 0.085

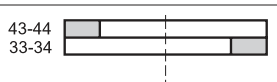
With mechanical locking in the
O position

B **3SB12 08-7JW..** 1 unit 0.085

Latching



NSD00076



Without mechanical locking in the
O position

B **3SB12 08-7KV..** 1 unit 0.085

With mechanical locking in the
O position

B **3SB12 08-7KW..** 1 unit 0.085

Order No. suffix

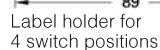
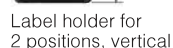
Actuator with molded plastic front
ring, black
Actuator with metal front ring

3SB12 0 . -7 . . 01

3SB12 0 . -7 . . 20

Plastic version, round Joystick switch, complete

Name plates



(5 lines each with 11 letters are possible,
text engraved)

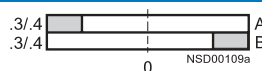
B

**K0Y, K1Y, K2Y,
K3Y or K9Y**

1 unit

0.001

Spare switch blocks



0.016

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, round
Actuating and signaling elements

Selection and ordering data

Version	Inscription	Color actuator	DT	Order No.	PS*	Weight per PU, approx. kg
Pushbuttons with holder¹⁾						
	Pushbutton with flat button	black	▶	3SB30 00-0AA11	5 units	0.025
		red	▶	3SB30 00-0AA21	5 units	0.025
		yellow	B	3SB30 00-0AA31	5 units	0.025
		green	▶	3SB30 00-0AA41	5 units	0.025
		blue	B	3SB30 00-0AA51	5 units	0.024
		white	▶	3SB30 00-0AA61	5 units	0.025
		gray	B	3SB30 00-0AB51	5 units	0.025
		clear ²⁾	B	3SB30 00-0AA71	5 units	0.025
		I	B	3SB30 00-0AA81	5 units	0.025
		O	B	3SB30 00-0AB01	5 units	0.025
	Pushbutton with raised button	black	B	3SB30 00-0BA11	1 unit	0.025
		red	B	3SB30 00-0BA21	1 unit	0.025
		yellow	B	3SB30 00-0BA31	1 unit	0.025
		green	B	3SB30 00-0BA41	1 unit	0.025
		blue	B	3SB30 00-0BA51	1 unit	0.025
		white	B	3SB30 00-0BA61	1 unit	0.026
	Pushbutton with raised button, latching after pressing by clockwise rotation, unlatching by anti-clockwise rotation	black	▶	3SB30 00-0CA11	1 unit	0.032
		red	B	3SB30 00-0CA21	1 unit	0.032
	Pushbutton with raised front ring (height 13 mm)	black	B	3SB30 00-0AA12	1 unit	0.026
		red	B	3SB30 00-0AA22	1 unit	0.030
		yellow	B	3SB30 00-0AA32	1 unit	0.045
		green	B	3SB30 00-0AA42	1 unit	0.026
		blue	B	3SB30 00-0AA52	1 unit	0.026
		white	B	3SB30 00-0AA62	1 unit	0.026
	Pushbutton with raised front ring castellated (height 13 mm)	black	B	3SB30 00-0AA13	1 unit	0.026
		red	B	3SB30 00-0AA23	1 unit	0.030
		yellow	B	3SB30 00-0AA33	1 unit	0.028
		green	B	3SB30 00-0AA43	1 unit	0.026
	Illuminated pushbutton with flat button incl. holder for 3 elements	red ²⁾	▶	3SB30 01-0AA21	5 units	0.025
		yellow ²⁾	▶	3SB30 01-0AA31	5 units	0.026
		green ²⁾	▶	3SB30 01-0AA41	5 units	0.026
		blue ²⁾	B	3SB30 01-0AA51	5 units	0.026
		white	B	3SB30 01-0AA61	5 units	0.025
		clear ²⁾	▶	3SB30 01-0AA71	5 units	0.025
	Illuminated pushbutton with raised button incl. holder for 3 elements	red	B	3SB30 01-0BA21	1 unit	0.026
		yellow	B	3SB30 01-0BA31	1 unit	0.026
		green	B	3SB30 01-0BA41	1 unit	0.026
		blue	B	3SB30 01-0BA51	1 unit	0.026
		clear	B	3SB30 01-0BA71	1 unit	0.026
	Pushbutton with flat pushbutton, latching unlatching by pressing again	black	B	3SB30 00-0DA11	1 unit	0.025
		red	B	3SB30 00-0DA21	1 unit	0.025
		yellow	B	3SB30 00-0DA31	1 unit	0.025
		green	B	3SB30 00-0DA41	1 unit	0.026
		blue	B	3SB30 00-0DA51	1 unit	0.025
		white	B	3SB30 00-0DA61	1 unit	0.025
		gray	C	3SB30 00-0DB51	1 unit	0.075
	Illuminated pushbutton with flat button, latching unlatching by pressing again, incl. holder for 3 elements	red ²⁾	B	3SB30 01-0DA21	1 unit	0.026
		yellow ²⁾	B	3SB30 01-0DA31	1 unit	0.027
		green ²⁾	B	3SB30 01-0DA41	1 unit	0.026
		blue ²⁾	B	3SB30 01-0DA51	1 unit	0.026
		white	B	3SB30 01-0DA61	1 unit	0.026
		clear ²⁾	B	3SB30 01-0DA71	1 unit	0.026

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Inscription is possible by inserting a label.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, round
Actuating and signaling elements

Mushroom pushbuttons with holders¹⁾



Version	Color actuator	DT	Order No.	PS*	Weight per PU, approx. kg
Mushroom pushbutton, Ø 30 mm					
	black	B	3SB30 00-1DA11	1 unit	0.032
	red	B	3SB30 00-1DA21	1 unit	0.032
	yellow	B	3SB30 00-1DA31	1 unit	0.032
	green	B	3SB30 00-1DA41	1 unit	0.032
Mushroom pushbutton, Ø 40 mm					
	black	▶	3SB30 00-1GA11	1 unit	0.033
	red	▶	3SB30 00-1GA21	1 unit	0.033
	yellow	B	3SB30 00-1GA31	1 unit	0.033
	green	B	3SB30 00-1GA41	1 unit	0.033
Mushroom pushbutton, Ø 60 mm					
	black	B	3SB30 00-1QA11	1 unit	0.050
	red	B	3SB30 00-1QA21	1 unit	0.050
	green	B	3SB30 00-1QA41	1 unit	0.050
Illuminated mushroom pushbutton, Ø 30 mm incl. holder for 3 elements					
	yellow	B	3SB30 01-1DA31	1 unit	0.032
	green	B	3SB30 01-1DA41	1 unit	0.034
	white	B	3SB30 01-1DA61	1 unit	0.034
Illuminated mushroom pushbutton, Ø 40 mm incl. holder for 3 elements					
	yellow	B	3SB30 01-1GA31	1 unit	0.034
	green	B	3SB30 01-1GA41	1 unit	0.034
	white	B	3SB30 01-1GA61	1 unit	0.034
Push-pull button, Ø 30 mm, latching pull to unlatch					
	black	B	3SB30 00-1EA11	1 unit	0.032
	red ²⁾	B	3SB30 00-1EA21	1 unit	0.032
Push-pull button, Ø 40 mm, latching pull to unlatch					
	black	▶	3SB30 00-1CA11	1 unit	0.033
	red	▶	3SB30 00-1CA21	1 unit	0.034
Push-pull button, Ø 60 mm, latching pull to unlatch					
	black	B	3SB30 00-1RA11	1 unit	0.050
	red	B	3SB30 00-1RA21	1 unit	0.050
Push-pull button, Ø 30 mm, can be illuminated, latching, pull to unlatch incl. holder for 3 elements					
	red	B	3SB30 01-1EA21	1 unit	0.033
	yellow	B	3SB30 01-1EA31	1 unit	0.037
	green	B	3SB30 01-1EA41	1 unit	0.033
	blue	B	3SB30 01-1EA51	1 unit	0.034
	clear	B	3SB30 01-1EA71	1 unit	0.060
Push-pull-button, Ø 40 mm, can be illuminated, latching, pull to unlatch incl. holder for 3 elements					
	red	B	3SB30 01-1CA21	1 unit	0.035
	yellow	B	3SB30 01-1CA31	1 unit	0.034
	green	B	3SB30 01-1CA41	1 unit	0.034
	blue	B	3SB30 01-1CA51	1 unit	0.034
	clear	B	3SB30 01-1CA71	1 unit	0.034

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Maximum permissible fittings: 3 single-pole and 2 double-pole switch blocks. When using the 3SB39 01-0AB holder, the central command position must not be empty.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, round
Actuating and signaling elements

Version	Version illumination	Color actuator	DT	Order No.	PS*	Weight per PU, approx. kg
olders ¹⁾						
Selector switches with 2 switch positions						
Switching sequence O-I 50° operating angle latching 	Non-illuminated	black	▶	3SB30 00-2KA11	1 unit	0.028
		red	B	3SB30 00-2KA21	1 unit	0.029
		green	B	3SB30 00-2KA41	1 unit	0.028
		white	B	3SB30 00-2KA61	1 unit	0.028
	Illuminated incl. holder for 3 elements	red	B	3SB30 01-2KA21	1 unit	0.030
		yellow	B	3SB30 01-2KA31	1 unit	0.029
		green	B	3SB30 01-2KA41	1 unit	0.029
		blue	B	3SB30 01-2KA51	1 unit	0.029
clear	B	3SB30 01-2KA71	1 unit	0.029		
Switching sequence O-I 50° operating angle momentary contact type 	Non-illuminated	black	▶	3SB30 00-2LA11	1 unit	0.029
		red	B	3SB30 00-2LA21	1 unit	0.028
		green	B	3SB30 00-2LA41	1 unit	0.028
		white	B	3SB30 00-2LA61	1 unit	0.028
	Illuminated incl. holder for 3 elements	red	B	3SB30 01-2LA21	1 unit	0.029
		yellow	B	3SB30 01-2LA31	1 unit	0.029
		green	B	3SB30 01-2LA41	1 unit	0.029
		blue	B	3SB30 01-2LA51	1 unit	0.029
clear	B	3SB30 01-2LA71	1 unit	0.029		
Non-illuminated selector switches with 3 switch positions						
Switching sequence I-O-II 2 x 50° operating angle latching 	Non-illuminated	black	▶	3SB30 00-2DA11	1 unit	0.028
		red	B	3SB30 00-2DA21	1 unit	0.028
		green	B	3SB30 00-2DA41	1 unit	0.029
		white	B	3SB30 00-2DA61	1 unit	0.028
	Illuminated incl. holder for 3 elements	red	B	3SB30 01-2DA21	1 unit	0.030
		yellow	B	3SB30 01-2DA31	1 unit	0.029
		green	B	3SB30 01-2DA41	1 unit	0.030
		blue	B	3SB30 01-2DA51	1 unit	0.029
clear	B	3SB30 01-2DA71	1 unit	0.030		
Switching sequence I-O-II 2 x 50° operating angle momentary contact type 	Non-illuminated	black	▶	3SB30 00-2EA11	1 unit	0.029
		red	B	3SB30 00-2EA21	1 unit	0.028
		green	B	3SB30 00-2EA41	1 unit	0.028
		white	B	3SB30 00-2EA61	1 unit	0.028
	Illuminated incl. holder for 3 elements	red	B	3SB30 01-2EA21	1 unit	0.029
		yellow	B	3SB30 01-2EA31	1 unit	0.030
		green	B	3SB30 01-2EA41	1 unit	0.030
		blue	B	3SB30 01-2EA51	1 unit	0.029
clear	B	3SB30 01-2EA71	1 unit	0.030		
Switching sequence I-O-II 2 x 50° operating angle momentary contact to the left, latching to the right (reset from left) 	Non-illuminated	black	▶	3SB30 00-2GA11	1 unit	0.028
		red	B	3SB30 00-2GA21	1 unit	0.029
		green	B	3SB30 00-2GA41	1 unit	0.028
		white	B	3SB30 00-2GA61	1 unit	0.030
	Illuminated incl. holder for 3 elements	red	B	3SB30 01-2GA21	1 unit	0.033
		yellow	B	3SB30 01-2GA31	1 unit	0.045
		green	B	3SB30 01-2GA41	1 unit	0.029
		blue	B	3SB30 01-2GA51	1 unit	0.029
clear	B	3SB30 01-2GA71	1 unit	0.030		
Switching sequence I-O-II 2 x 50° operating angle latching to the left, momentary contact type to the right (return from right) 	Non-illuminated	black	B	3SB30 00-2FA11	1 unit	0.028
		red	B	3SB30 00-2FA21	1 unit	0.029
		green	B	3SB30 00-2FA41	1 unit	0.029
		white	B	3SB30 00-2FA61	1 unit	0.028
	Illuminated incl. holder for 3 elements	red	B	3SB30 01-2FA21	1 unit	0.060
		yellow	B	3SB30 01-2FA31	1 unit	0.060
		green	B	3SB30 01-2FA41	1 unit	0.030
		blue	C	3SB30 01-2FA51	1 unit	0.035
		clear	B	3SB30 01-2FA71	1 unit	0.037

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, round
Actuating and signaling elements

Version	Version key-operated switch			DT	Order No.	PS*	Weight per PU, approx.
	Type	Lock No.	Key removal position				kg

Key-operated switches with holders¹⁾



RONIS key-operated switch



CES key-operated switch



IKON key-operated switch



BKS key-operated switch



O.M.R. key-operated switch

Key-operated switch with 2 keys, 2 positions

Switching sequence O-I
50° operating angle
latching



Switching sequence O-I
50° operating angle
latching



Switching sequence O-I
50° operating angle
momentary contact type



RONIS	SB 30	O+I O I	B B B	3SB30 00-4HD11 3SB30 00-4HD01 3SB30 00-4HD21	1 unit 1 unit 1 unit	0.059 0.060 0.060
RONIS	SB 30	O+I O I	▶ ▶ B	3SB30 00-4AD11 3SB30 00-4AD01 3SB30 00-4AD21	1 unit 1 unit 1 unit	0.060 0.060 0.060
CES	SSG 10	O+I O I	▶ ▶ B	3SB30 00-4LD11 3SB30 00-4LD01 3SB30 00-4LD21	1 unit 1 unit 1 unit	0.139 0.143 0.142
	LSG 1	O+I O	B B	3SB30 00-4LF01 3SB30 00-4LF11	1 unit 1 unit	0.140 0.144
IKON	360012 K1	O+I O	B B	3SB30 00-5LD11 3SB30 00-5LD01	1 unit 1 unit	0.148 0.150
BKS	S1	O+I O I	B B B	3SB30 00-5AD11 3SB30 00-5AD01 3SB30 00-5AD21	1 unit 1 unit 1 unit	0.136 0.138 0.140
	E1 for VW ²⁾	O+I O	B B	3SB30 00-5AE01 3SB30 00-5AE11	1 unit 1 unit	0.125 0.128
	E2 for VW ²⁾	O+I O	B B	3SB30 00-5AE21 3SB30 00-5AE31	1 unit 1 unit	0.125 0.129
	E7 for VW ²⁾	O+I O	B B	3SB30 00-5AE41 3SB30 00-5AE51	1 unit 1 unit	0.124 0.128
	E9 for VW ²⁾	O+I O	B B	3SB30 00-5AE61 3SB30 00-5AE71	1 unit 1 unit	0.125 0.127
O.M.R. ³⁾	73038 light blue	O+I O	B B	3SB30 00-3AG11 3SB30 00-3AG01	1 unit 1 unit	0.190 0.126
	73037 red	O+I O I	B B B	3SB30 00-3AH11 3SB30 00-3AH01 3SB30 00-3AH21	1 unit 1 unit 1 unit	0.150 0.126 0.125
	73034 black	O+I O	B B	3SB30 00-3AJ11 3SB30 00-3AJ01	1 unit 1 unit	0.127 0.125
	73033 yellow	O+I O	B B	3SB30 00-3AK11 3SB30 00-3AK01	1 unit 1 unit	0.160 0.120
RONIS	SB 30	O	▶	3SB30 00-4BD01	1 unit	0.060
CES	SSG 10	O	▶	3SB30 00-4MD01	1 unit	0.143
	LSG 1	O	B	3SB30 00-4MF11	1 unit	0.144
IKON	360012 K1	O	B	3SB30 00-5MD01	1 unit	0.150
BKS	S1	O	B	3SB30 00-5BD01	1 unit	0.141
O.M.R. ³⁾	73038 light blue	O	B	3SB30 00-3BG01	1 unit	0.126
	73037 red	O	B	3SB30 00-3BH01	1 unit	0.127
	73034 black	O	B	3SB30 00-3BJ01	1 unit	0.140
	73033 yellow	O	B	3SB30 00-3BK01	1 unit	0.126

For special designs, see page 9/39.

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Supplied without the key.

3) Designed to FIAT specification; also available for other customers.

* This quantity or a multiple thereof can be ordered

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, round
Actuating and signaling elements

Version	Version key-operated switch			DT	Order No.	PS*	Weight per PU, approx.
	Type	Lock No.	Key removal position				

kg

Key-operated switches with holders¹⁾

Key-operated switch with 2 keys and 3 switch positions

Switching sequence I-O-II
2 x 50° operating angle
latching



RONIS key-operated switch



CES key-operated switch



IKON key-operated switch



BKS key-operated switch



O.M.R. key-operated switch

Switching sequence I-O-II
2 x 50° operating angle
momentary contact type



RONIS	SB 30	I+O+II O I+II I II O+I	B B B B B B	3SB30 00-4DD11 3SB30 00-4DD01 3SB30 00-4DD41 3SB30 00-4DD21 3SB30 00-4DD31 3SB30 00-4DD51	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	0.060 0.060 0.060 0.060 0.060 0.060
CES	SSG 10	I+O+II O I+II I II	B B B B B	3SB30 00-4PD11 3SB30 00-4PD01 3SB30 00-4PD41 3SB30 00-4PD21 3SB30 00-4PD31	1 unit 1 unit 1 unit 1 unit 1 unit	0.140 0.144 0.142 0.144 0.144
IKON	360012 K1	I+O+II	B	3SB30 00-5PD11	1 unit	0.149
BKS	S1	I+O+II O II	B B C	3SB30 00-5DD11 3SB30 00-5DD01 3SB30 00-5DD31	1 unit 1 unit 1 unit	0.136 0.141 0.137
O.M.R. ²⁾	73038 light blue	I+O+II O O+I	B B B	3SB30 00-3DG11 3SB30 00-3DG01 3SB30 00-3DG51	1 unit 1 unit 1 unit	0.125 0.127 0.125
	73037 red	I+O+II O O+I	B B B	3SB30 00-3DH11 3SB30 00-3DH01 3SB30 00-3DH51	1 unit 1 unit 1 unit	0.127 0.125 0.125
	73034 black	I+O+II O	B B	3SB30 00-3DJ11 3SB30 00-3DJ01	1 unit 1 unit	0.126 0.128
	73033 yellow	I+O+II O	B C	3SB30 00-3DK11 3SB30 00-3DK01	1 unit 1 unit	0.125 0.128
RONIS	SB 30	O	B	3SB30 00-4ED01	1 unit	0.060
CES	SSG 10	O	B	3SB30 00-4QD01	1 unit	0.144
IKON	360012 K1	O	B	3SB30 00-5QD01	1 unit	0.153
BKS	S1	O	B	3SB30 00-5ED01	1 unit	0.140
O.M.R. ²⁾	73038 light blue	O	B	3SB30 00-3EG01	1 unit	0.130
	73037 red	O	B	3SB30 00-3EH01	1 unit	0.123
	73034 black	O	B	3SB30 00-3EJ01	1 unit	0.128
	73033 yellow	O	B	3SB30 00-3EK01	1 unit	0.128

For special designs, see page 9/39.

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Designed to FIAT specification; also available for other customers.

Pushbuttons and Indicator Lights SIGNUM 22 mm Nominal Diameter

Plastic version, round
Actuating and signaling elements

Version	Version key-operated switch			DT	Order No.	PS*	Weight per PU, approx.
	Type	Lock No.	Key removal position				kg

Key-operated switches with holders¹⁾

Key-operated switch with 2 keys and 3 switch positions



RONIS key-operated switch

Switching sequence I-O-II
2 x 50° operating angle
momentary contact type to the left,
latching to the right
(return from left)



RONIS	SB 30	O + II	B	3SB30 00-4GD61	1 unit	0.060
			B	3SB30 00-4GD01	1 unit	0.061
			B	3SB30 00-4GD31	1 unit	0.061
CES	SSG 10	O + II	B	3SB30 00-4SD61	5 units	0.142
			B	3SB30 00-4SD01	5 units	0.144
			B	3SB30 00-4SD31	5 units	0.144
BKS	S1	O	B	3SB30 00-5GD01	1 unit	0.141



CES key-operated switch

Switching sequence I-O-II
2 x 50° operating angle
latching to the left,
momentary contact type to the right
(return from right)



RONIS	SB 30	O+I	B	3SB30 00-4FD51	1 unit	0.060
			B	3SB30 00-4FD01	1 unit	0.061
			B	3SB30 00-4FD21	1 unit	0.061
CES	SSG 10	O+I	B	3SB30 00-4RD51	5 units	0.143
			B	3SB30 00-4RD01	5 units	0.144
			B	3SB30 00-4RD21	5 units	0.144
IKON	350012 K1	O+I	B	3SB30 00-5RD51	1 unit	0.150
BKS	S1	O+I	B	3SB30 00-5FD51	1 unit	0.137
			B	3SB30 00-5FD01	1 unit	0.141
			B	3SB30 00-5FD21	1 unit	0.141
O.M.R. ²⁾	73038 light blue	O	B	3SB30 00-3FG01	1 unit	0.126
			C	3SB30 00-3FG21	1 unit	0.126
	73034 black	I	B	3SB30 00-3FJ21	1 unit	0.127



IKON key-operated switch



BKS key-operated switch



O.M.R. key-operated switch

For special designs, see page 9/39.

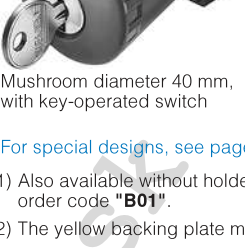
1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) In accordance with FIAT standards; also available for other users.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, round
Actuating and signaling elements

Version	Color of actuator / position for key removal	Approval	DT	Order No.	PS*	Weight per PU, approx. kg
EMERGENCY-STOP control devices according to EN 418 and IEC 60947-5-5 with holder^{1/2)} Also for use with 3TK28 contactor safety combinations (see Section 11)						
	EMERGENCY-STOP mushroom pushbutton, Ø 32 mm, with positive latching function acc. to EN 418, rotate to unlatch	red		B	3SB30 00-1FA20	1 unit 0.032
Mushroom diameter 32 mm						
	EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with positive latching function acc. to EN 418, rotate to unlatch	red		▶	3SB30 00-1HA20	1 unit 0.055
Mushroom diameter 40 mm, rotate to unlatch						
	EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with positive latching function acc. to EN 418, pull to unlatch	red		B	3SB30 00-1TA20	1 unit 0.050
	EMERGENCY-STOP mushroom pushbutton, Ø 60 mm, with positive latching function acc. to EN 418, pull to unlatch	red		B	3SB30 00-1AA20	1 unit 0.086
Mushroom diameter 40 mm, pull to unlatch						
	EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with RONIS key-operated switch, lock No. SB 30, with positive latching to EN 418, unlocking only possible using key	red ON/OFF		B	3SB30 00-1BA20	1 unit 0.086
	EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with CES key-operated switch, lock No. SSG 10, with positive latching to EN 418, unlocking only possible using key	red ON/OFF		B	3SB30 00-1KA20	1 unit 0.114
Mushroom diameter 60 mm						
	EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with BKS key-operated switch, lock No. S1, with positive latching to EN 418, unlocking only possible using key	red ON/OFF		B	3SB30 00-1LA20	1 unit 0.112
	EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with O.M.R. key-operated switch, lock No. 73037, with positive latching to EN 418, unlocking only possible using key	red ON/OFF		B	3SB30 00-1MA20	1 unit 0.120
Mushroom diameter 40 mm, with key-operated switch						

For special designs, see page 9/39.

- 1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".
- 2) The yellow backing plate must be ordered separately, see Accessories.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, round
Actuating and signaling elements

Version	Color of lens	DT	Order No.	PS*	Weight per PU, approx. kg
Signaling elements with holders¹⁾					
	Indicator light with smooth lens		red	▶ 3SB30 01-6AA20	5 units 0.023
			yellow	B 3SB30 01-6AA30	5 units 0.023
			green	▶ 3SB30 01-6AA40	5 units 0.022
			blue	B 3SB30 01-6AA50	5 units 0.022
			white	B 3SB30 01-6AA60	5 units 0.023
			clear	▶ 3SB30 01-6AA70	5 units 0.023
	Indicator light with lens with concentric rings		red	B 3SB30 01-6BA20	5 units 0.022
			yellow	B 3SB30 01-6BA30	5 units 0.023
			green	B 3SB30 01-6BA40	5 units 0.023
			blue	B 3SB30 01-6BA50	5 units 0.023
			white	B 3SB30 01-6BA60	5 units 0.023
			clear	B 3SB30 01-6BA70	5 units 0.022
	Acoustic signaling device, IP40 ²⁾ for acoustic signal transformer DC 24 V with BA 9s base ³⁾		black	B 3SB30 00-7AA10	1 unit 0.024

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Acoustic signal device, IP65, see complete device combinations.

3) To order acoustic signal transformer separately, see Accessories. The 3SB34 00-1A lampholder is also required.

Pushbuttons and Indicator Lights SIGNUM 22 mm Nominal Diameter

Plastic version, round
Actuating and signaling elements

On-Off pushbuttons with holders¹⁾



On-Off pushbutton with flat buttons



On-Off pushbutton with indicator light, with flat and raised buttons

Version	Inscription	Color of actuator	DT	Order No.	PS*	Weight per PU, approx. kg
On-Off pushbutton, with flat buttons	I/O ²⁾	green/red	B	3SB31 00-8AC21	1 unit	0.032
	I/O ²⁾	white/black	B	3SB31 00-8AC31	1 unit	0.032
	I/O ²⁾	green/red	B	3SB31 00-8CC21	1 unit	0.032
	I/O ²⁾	white/black	B	3SB31 00-8CC31	1 unit	0.032
On-Off pushbutton with indicator light, with flat pushbuttons incl. holders for 3 elements	I/O ²⁾	green/red	B	3SB31 01-8BC21	1 unit	0.033
	I/O ²⁾	white/black	B	3SB31 01-8BC31	1 unit	0.033
	I/O ²⁾	green/red	B	3SB31 01-8DC21	1 unit	0.033
	I/O ²⁾	white/black	B	3SB31 01-8DC31	1 unit	0.033

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Black inscription for green, red and white buttons; white inscription on black button.



Labeling plate



Protective cap

Version	DT	Order No.	PS*	Weight per PU, approx. kg
Label holder, 70 mm x 30 mm for labeling plate 12.5 mm x 27 mm¹⁾	B	3SB39 22-0AY	5 unit	0.200
Protective cap, clear, silicone for IP67 degree of protection can be used for on-off pushbutton with flat buttons	B	3SB39 21-0AQ	1 unit	0.004

1) For labeling plates, see page 9/68.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, round
Actuating and signaling elements

Options

Special locks for key-operated switches

For special locks that are listed in the table below, the normal delivery time is 5 working days.

In the case, the Order No. of the relevant switch must be supplemented with **"-Z"**, the short code **"Y02"** and the required lock number.

Ordering example

3SB30 00-4LD01-Z
Y02
Z = SSG11

Special locks	Order No. Code
SB31 to SB49, T421, T455, T458	3SB3. ...-4AD..-Z Y02 3SB3. ...-4BD..-Z Y02 3SB3. ...-4DD..-Z Y02 3SB3. ...-4ED..-Z Y02 3SB3. ...-4GD..-Z Y02 3SB3. ...-4FD..-Z Y02
SB31 to SB49, T421, T455, T458	3SB3. ...-1BA20-Z Y02
SSG 11 to SSG 15	3SB3. ...-4LD..-Z Y02 3SB3. ...-4MD..-Z Y02 3SB3. ...-4PD..-Z Y02 3SB3. ...-4QD..-Z Y02 3SB3. ...-4RD..-Z Y02 3SB3. ...-4SD..-Z Y02
SSP 9	3SB3. ...-1KA20-Z Y02
E1, E2, E7, E9	3SB3. ...-5AD..-Z Y02 3SB3. ...-5BD..-Z Y02 3SB3. ...-5DD01-Z Y02 3SB3. ...-5DD11-Z Y02 3SB3. ...-5DD41-Z Y02 3SB3. ...-5ED..-Z Y02 3SB3. ...-5FD01-Z Y02 3SB3. ...-5GD01-Z Y02
E 9	3SB3. ...-5FD51-Z Y02
E2, E7, E9	3SB3. ...-1LA20-Z Y02

For special locks that are not listed in the above table, the normal delivery time is 25 working days.

In this case, the Order No. of the relevant switch must be supplemented with **"-Z"**, the short code **"Y01"** and the required lock number.

Ordering example

3SB30 00-4LD01-Z
Y01
Z = SSG18

Versions

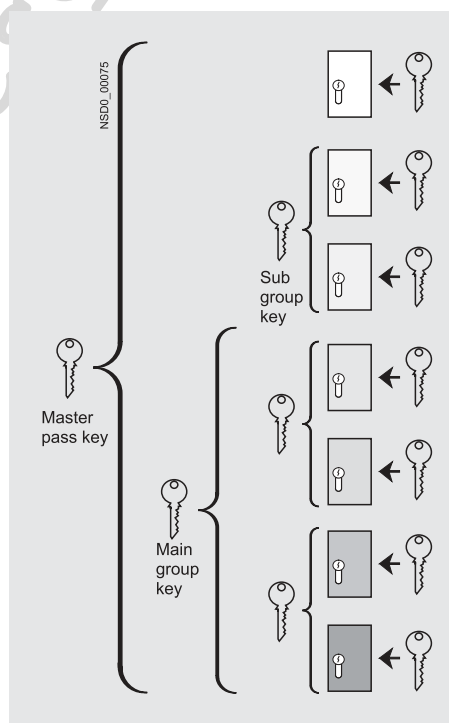
- For applications in which access security is important and several lock numbers are used, we recommend the use of BKS, CES or IKON key-operated switches.
- Special locks for VW (E1, E2, ...) will be delivered without keys, all others with 2 keys.
- For all special locks, a price supplement applies.

Master and master-pass key systems

The following key systems can be supplied with BKS, CES, IKON and O.M.R. key-operated switches:

- central lock systems,
- master key systems,
- central master key systems,
- master-pass key systems.

Please enquire for price and delivery time.



Example of master-pass key system

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, round Actuating and signaling elements

Laser inscription

Actuating and signaling elements in plastic as well as metal design can be optionally inscribed with a laser.

The actuators of the pushbuttons, illuminated pushbuttons, mushroom pushbuttons and illuminated mushroom pushbuttons can be inscribed as well as the lenses of the indicator light.



Pushbutton with laser inscription

Notes on ordering

When ordering, supplement the Order No. of the actuating element or the indicator light with "-Z" and an order code:

- Text in upper/lowercase: **Y10**
- Text in uppercase: **Y11**
- Text in lowercase: **Y12**
- Symbols with number to DIN Report 4: **Y13**
- Inscription or symbols according to order form supplement: **Y19**

The required inscription must also be specified in plain text. In the case of inscriptions with words in languages other than German, give the exact spelling and specify the language.

For special symbols (short code Y19), a CAD drawing in DXF format should be submitted.

Ordering examples

A round pushbutton with the inscription "Reset" is required:

3SB30 00-0AA41-Z
Y10
Z = Reset (English)

A square pushbutton inscribed with symbol No. 1800 according to DIN Report 4:

3SB31 10-0AA31-Z
Y13
Z = 1800

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, square
Complete unit combinations

Selection and ordering data

	Version	Lamp voltage	Color of actuator	Contacts for front plate mounting	DT	Order No.	PS*	Weight per PU, approx.
		V						kg
 Pushbutton	Pushbutton with flat button		black	1 NO	B	3SB33 02-0AA11	1 unit	0.039
			black	1 NC	B	3SB33 03-0AA11	1 unit	0.039
			red	1 NC	B	3SB33 03-0AA21	1 unit	0.040
			yellow	1 NO	B	3SB33 02-0AA31	1 unit	0.039
			green	1 NO	B	3SB33 02-0AA41	1 unit	0.039
			blue	1 NO	B	3SB33 02-0AA51	1 unit	0.039
			white	1 NO	B	3SB33 02-0AA61	1 unit	0.040
			black	1 NO + 1 NC	B	3SB33 01-0AA11	1 unit	0.046
			red	1 NO + 1 NC	B	3SB33 01-0AA21	1 unit	0.046
			yellow	1 NO + 1 NC	B	3SB33 01-0AA31	1 unit	0.047
			green	1 NO + 1 NC	B	3SB33 01-0AA41	1 unit	0.046
			blue	1 NO + 1 NC	C	3SB33 01-0AA51	1 unit	0.046
			white	1 NO + 1 NC	B	3SB33 01-0AA61	1 unit	0.046
 Illuminated pushbutton	Illuminated pushbutton with flat button with integrated LED	AC/DC 24	red ¹⁾	1 NC	B	3SB33 46-0AA21	1 unit	0.050
			yellow ¹⁾	1 NO	B	3SB33 45-0AA31	1 unit	0.050
			green ¹⁾	1 NO	B	3SB33 45-0AA41	1 unit	0.050
			blue ¹⁾	1 NO	B	3SB33 45-0AA51	1 unit	0.050
			white	1 NO	B	3SB33 45-0AA61	1 unit	0.050
			clear ¹⁾	1 NO	B	3SB33 45-0AA71	1 unit	0.050
			red ¹⁾	1 NO + 1 NC	B	3SB33 47-0AA21	1 unit	0.056
			yellow ¹⁾	1 NO + 1 NC	B	3SB33 47-0AA31	1 unit	0.057
			green ¹⁾	1 NO + 1 NC	B	3SB33 47-0AA41	1 unit	0.057
			blue ¹⁾	1 NO + 1 NC	B	3SB33 47-0AA51	1 unit	0.056
			white	1 NO + 1 NC	B	3SB33 47-0AA61	1 unit	0.057
			clear ¹⁾	1 NO + 1 NC	B	3SB33 47-0AA71	1 unit	0.057
	Illuminated pushbutton with flat button with integrated LED	AC 230	red ¹⁾	1 NC	B	3SB33 54-0AA21	1 unit	0.050
			yellow ¹⁾	1 NO	C	3SB33 53-0AA31	1 unit	0.050
			green ¹⁾	1 NO	B	3SB33 53-0AA41	1 unit	0.050
			blue ¹⁾	1 NO	C	3SB33 53-0AA51	1 unit	0.050
			white	1 NO	B	3SB33 53-0AA61	1 unit	0.050
			clear ¹⁾	1 NO	B	3SB33 53-0AA71	1 unit	0.050
			red ¹⁾	1 NO + 1 NC	B	3SB33 55-0AA21	1 unit	0.058
			yellow ¹⁾	1 NO + 1 NC	C	3SB33 55-0AA31	1 unit	0.057
			green ¹⁾	1 NO + 1 NC	C	3SB33 55-0AA41	1 unit	0.057
			blue ¹⁾	1 NO + 1 NC	C	3SB33 55-0AA51	1 unit	0.057
	Illuminated pushbutton with flat button with BA 9s lampholder without lamp		red ¹⁾	1 NC	B	3SB33 07-0AA21	1 unit	0.050
			yellow ¹⁾	1 NO	B	3SB33 06-0AA31	1 unit	0.049
			green ¹⁾	1 NO	B	3SB33 06-0AA41	1 unit	0.049
			blue ¹⁾	1 NO	B	3SB33 06-0AA51	1 unit	0.049
			white	1 NO	B	3SB33 06-0AA61	1 unit	0.049
			clear ¹⁾	1 NO	B	3SB33 06-0AA71	1 unit	0.049
			red ¹⁾	1 NO + 1 NC	B	3SB33 05-0AA21	1 unit	0.056
			yellow ¹⁾	1 NO + 1 NC	B	3SB33 05-0AA31	1 unit	0.054
			green ¹⁾	1 NO + 1 NC	B	3SB33 05-0AA41	1 unit	0.056
			blue ¹⁾	1 NO + 1 NC	B	3SB33 05-0AA51	1 unit	0.056
			white	1 NO + 1 NC	B	3SB33 05-0AA61	1 unit	0.056
			clear ¹⁾	1 NO + 1 NC	B	3SB33 05-0AA71	1 unit	0.056

EMERGENCY-STOP control devices according to EN 418 with yellow name plate, Ø 80 mm, labeled.

Can also be used with 3TK28 contactor safety combinations (see Part 11)



EMERGENCY-STOP
mushroom pushbuttons

Mushroom pushbutton, Ø 40 mm, with positive latching function
rotate to unlatch

red

1 NC

→ ²⁾ B

3SB33 03-1HA20

1 unit 0.065

1 NO + 1 NC

→ ²⁾ B

3SB33 01-1HA20

1 unit 0.080

1) Inscription is possible by inserting a label.

2) Positive opening according to IEC 60947-5-1, Appendix K.

* This quantity or a multiple thereof can be ordered

Siemens LV 10 · 2004

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Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, square
Complete unit combinations



Indicator light

Version	Lamp voltage	Color of lens	DT	Order No.	PS*	Weight per PU, approx. kg
V						
Indicator light with integrated LED	AC/DC 24	red	B	3SB33 44-6AA20	1 unit	0.039
		yellow	B	3SB33 44-6AA30	1 unit	0.039
		green	B	3SB33 44-6AA40	1 unit	0.039
		blue	B	3SB33 44-6AA50	1 unit	0.039
		white	B	3SB33 44-6AA60	1 unit	0.039
		clear	B	3SB33 44-6AA70	1 unit	0.039
Indicator light with integrated LED	AC 230	red	B	3SB33 52-6AA20	1 unit	0.039
		yellow	B	3SB33 52-6AA30	1 unit	0.039
		green	B	3SB33 52-6AA40	1 unit	0.039
		blue	B	3SB33 52-6AA50	1 unit	0.040
		white	B	3SB33 52-6AA60	1 unit	0.040
		clear	B	3SB33 52-6AA70	1 unit	0.040
Indicator light with BA 9s lampholder (without lamp)		red	B	3SB33 04-6AA20	1 unit	0.039
		yellow	B	3SB33 04-6AA30	1 unit	0.039
		green	B	3SB33 04-6AA40	1 unit	0.038
		blue	B	3SB33 04-6AA50	1 unit	0.038
		white	B	3SB33 04-6AA60	1 unit	0.038
		clear	B	3SB33 04-6AA70	1 unit	0.038

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, square
Actuating and signaling elements

Selection and ordering data

Version	Color of actuator	DT	Order No.	PS*	Weight per PU, approx. kg
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Pushbuttons with holders¹⁾



Pushbutton

Pushbutton with flat button

black	B	3SB31 10-0AA11	5 units	0.024
red	B	3SB31 10-0AA21	5 units	0.024
yellow	B	3SB31 10-0AA31	5 units	0.024
green	B	3SB31 10-0AA41	5 units	0.024
blue	B	3SB31 10-0AA51	5 units	0.024
white	B	3SB31 10-0AA61	5 units	0.024
clear ²⁾	B	3SB31 10-0AA71	5 units	0.024

Pushbutton with raised front ring (height 13 mm)

black	B	3SB31 10-0AA12	1 unit	0.026
red	B	3SB31 10-0AA22	1 unit	0.033
white	B	3SB31 10-0AA62	1 unit	0.026

Pushbutton with raised front ring castellated (height 13 mm)

black	C	3SB31 10-0AA13	1 unit	0.026
yellow	C	3SB31 10-0AA33	1 unit	0.027
green	C	3SB31 10-0AA43	1 unit	0.026

Illuminated pushbutton with flat button incl. holder for 3 elements

red ²⁾	B	3SB31 11-0AA21	5 units	0.025
yellow ²⁾	B	3SB31 11-0AA31	5 units	0.025
green ²⁾	B	3SB31 11-0AA41	5 units	0.025
blue ²⁾	B	3SB31 11-0AA51	5 units	0.025
white	B	3SB31 11-0AA61	5 units	0.025
clear ²⁾	B	3SB31 11-0AA71	5 units	0.025



Illuminated pushbutton

Pushbutton, latching, with flat button unlatching by pressing again

black	B	3SB31 10-0DA11	1 unit	0.024
red	B	3SB31 10-0DA21	1 unit	0.024
yellow	B	3SB31 10-0DA31	1 unit	0.025
green	B	3SB31 10-0DA41	1 unit	0.024
blue	C	3SB31 10-0DA51	1 unit	0.024
white	B	3SB31 10-0DA61	1 unit	0.024



Pushbutton

Illuminated pushbutton, latching, with flat button incl. holder for 3 elements, unlatching by pressing again

red ²⁾	B	3SB31 11-0DA21	1 unit	0.025
yellow ²⁾	B	3SB31 11-0DA31	1 unit	0.025
green ²⁾	B	3SB31 11-0DA41	1 unit	0.025
blue ²⁾	B	3SB31 11-0DA51	1 unit	0.025
white	B	3SB31 11-0DA61	1 unit	0.025
clear ²⁾	B	3SB31 11-0DA71	1 unit	0.025



Illuminated pushbutton

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Inscription is possible by inserting a label.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, square
Actuating and signaling elements

Version	Version illumination	Color of actuator	DT	Order No.	PS*	Weight per PU, approx. kg
Selector switch with 2 switch positions						
Switching sequence O-I, 50° operating angle, latching 	Non-illuminated	black	B	3SB31 10-2KA11	1 unit	0.030
		red	B	3SB31 10-2KA21	1 unit	0.030
		green	B	3SB31 10-2KA41	1 unit	0.029
		white	B	3SB31 10-2KA61	1 unit	0.030
	illuminated incl. holder for 3 elements	red	B	3SB31 11-2KA21	1 unit	0.031
		yellow	B	3SB31 11-2KA31	1 unit	0.031
		green	B	3SB31 11-2KA41	1 unit	0.031
		blue	B	3SB31 11-2KA51	1 unit	0.031
		clear	B	3SB31 11-2KA71	1 unit	0.031
		Switching sequence O-I 50° operating angle momentary contact type 	Non-illuminated	black	B	3SB31 10-2LA11
red	C			3SB31 10-2LA21	1 unit	0.030
green	C			3SB31 10-2LA41	1 unit	0.029
white	C			3SB31 10-2LA61	1 unit	0.030
illuminated incl. holder for 3 elements	red		B	3SB31 11-2LA21	1 unit	0.031
	yellow		C	3SB31 11-2LA31	1 unit	0.031
	green		C	3SB31 11-2LA41	1 unit	0.032
	blue		C	3SB31 11-2LA51	1 unit	0.031
	clear		B	3SB31 11-2LA71	1 unit	0.031
	Selector switch with 3 switch positions					
Switching sequence I-O-II 2 × 50° operating angle latching 	Non-illuminated	black	B	3SB31 10-2DA11	1 unit	0.031
		red	B	3SB31 10-2DA21	1 unit	0.030
		green	C	3SB31 10-2DA41	1 unit	0.030
		white	C	3SB31 10-2DA61	1 unit	0.030
	illuminated incl. holder for 3 elements	red	B	3SB31 11-2DA21	1 unit	0.030
		yellow	B	3SB31 11-2DA31	1 unit	0.030
		green	B	3SB31 11-2DA41	1 unit	0.031
		blue	C	3SB31 11-2DA51	1 unit	0.035
		clear	B	3SB31 11-2DA71	1 unit	0.031
		Switching sequence I-O-II 2 × 50° operating angle momentary contact type 	Non-illuminated	black	B	3SB31 10-2EA11
red	B			3SB31 10-2EA21	1 unit	0.030
green	C			3SB31 10-2EA41	1 unit	0.030
white	C			3SB31 10-2EA61	1 unit	0.030
illuminated incl. holder for 3 elements	red		C	3SB31 11-2EA21	1 unit	0.031
	yellow		C	3SB31 11-2EA31	1 unit	0.037
	green		B	3SB31 11-2EA41	1 unit	0.031
	blue		C	3SB31 11-2EA51	1 unit	0.031
	clear		B	3SB31 11-2EA71	1 unit	0.031
	Switching sequence I-O-II 2 × 50° operating angle momentary contact type to the left, latching to the right (return from left) 		Non-illuminated²⁾	black	B	3SB31 10-2GA11
red		B		3SB31 10-2GA21	1 unit	0.023
green		C		3SB31 10-2GA41	1 unit	0.030
white		B		3SB31 10-2GA61	1 unit	0.037
Switching sequence I-O-II 2 × 50° operating angle latching to the left, momentary contact type to the right (return from right) 	Non-illuminated²⁾	black	B	3SB31 10-2FA11	1 unit	0.033
		red	C	3SB31 10-2FA21	1 unit	0.032
		green	B	3SB31 10-2FA41	1 unit	0.050
		white	B	3SB31 10-2FA61	1 unit	0.023

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Also available as illuminated selector switch. When ordering, add "-Z" to the order number and indicate "illuminated selector switch" and the color in plain text.

Pushbuttons and Indicator Lights SIGNUM 22 mm Nominal Diameter

Plastic version, square
Actuating and signaling elements

Version	Type	Lock No./ Color	Key removal position	DT	Order No.	PS*	Weight per PU, approx. kg
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Key-operated switches with holders¹⁾



RONIS key-operated switch

Key-operated switch with 2 keys, 2 positions

Switching sequence O-I,
50° operating angle,
latching



RONIS	SB 30	O+I O I	B	3SB31 10-4AD11	1 unit	0.061
				3SB31 10-4AD01	1 unit	0.061
				3SB31 10-4AD21	1 unit	0.061
CES	SSG 10	O+I O I	B	3SB31 10-4LD11	1 unit	0.141
				3SB31 10-4LD01	1 unit	0.144
				3SB31 10-4LD21	1 unit	0.145
	LSG 1	O	C	3SB31 10-4LF01	1 unit	0.140
IKON	360012 K1	O	B	3SB31 10-5LD01	1 unit	0.151
BKS	S1	O+I O	B	3SB31 10-5AD11	1 unit	0.140
				3SB31 10-5AD01	1 unit	0.143
	E1 for VW ²⁾ E2 for VW ²⁾ E7 for VW ²⁾ E9 for VW ²⁾	O+I O O+I O	C	3SB31 10-5AE01	1 unit	0.125
			B	3SB31 10-5AE31	1 unit	0.130
			B	3SB31 10-5AE41	1 unit	0.126
			B	3SB31 10-5AE51	1 unit	0.133
			B	3SB31 10-5AE71	1 unit	0.130
O.M.R. ³⁾	73038 light blue 73037 red	O+I O O+I O	B	3SB31 10-3AG11	1 unit	0.128
			B	3SB31 10-3AG01	1 unit	0.129
			B	3SB31 10-3AH11	1 unit	0.135
			B	3SB31 10-3AH01	1 unit	0.127
			B	3SB31 10-3AJ11	1 unit	0.127
	73034 black 73033 yellow	O+I O O+I O	B	3SB31 10-3AJ01	1 unit	0.129
			B	3SB31 10-3AK11	1 unit	0.126
			B	3SB31 10-3AK01	1 unit	0.129
RONIS	SB 30	O	B	3SB31 10-4BD01	1 unit	0.090
CES	SSG 10	O	B	3SB31 10-4MD01	1 unit	0.145
IKON	360012 K1	O	C	3SB31 10-5MD01	1 unit	0.151
BKS	S1	O	C	3SB31 10-5BD01	1 unit	0.142
O.M.R. ³⁾	73034 black	O	B	3SB31 10-3BJ01	1 unit	0.127



CES key-operated switch



O.M.R. key-operated switch

For special designs, see page 9/39.

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Supplied without the key.

3) Designed to FIAT specification; also available for other customers.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, square
Actuating and signaling elements

Version	Type	Lock No./ Color	Key removal position	DT	Order No.	PS*	Weight per PU, approx. kg
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Key-operated switches with holders¹⁾

Key-operated switch with 2 keys and 3 switch positions



RONIS key-operated switch

Switching sequence I-O-II
2 × 50° operating angle
latching



RONIS	SB 30	I+O+II O I+II	B B B	3SB31 10-4DD11 3SB31 10-4DD01 3SB31 10-4DD41	1 unit 1 unit 1 unit	0.060 0.062 0.061
CES	SSG 10	I+O+II O	B B	3SB31 10-4PD11 3SB31 10-4PD01	1 unit 1 unit	0.142 0.145
O.M.R. ²⁾	73037 red 73034 black	O I+O+II O	C C	3SB31 10-3DH01 3SB31 10-3DJ11 3SB31 10-3DJ01	1 unit 1 unit	0.127 0.128



CES key-operated switch

Switching sequence I-O-II,
2 × 50° operating angle,
latching (return from right and left)



RONIS flat	SB 30	O	B	3SB31 10-4ED01	1 unit	0.060
CES	SSG 10	O	B	3SB31 10-4QD01	1 unit	0.145
IKON	360012 K1	O		3SB31 10-5QD01		

Switching sequence I-O-II
2 × 50° operating angle
momentary contact type to the left,
latching to the right
(return from left)



CES	SSG 10	O	B	3SB31 10-4SD01	1 unit	0.145
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O.M.R. key-operated switch

Switching sequence I-O-II
2 × 50° operating angle
latching to the left,
momentary contact type to the right
(return from right)



RONIS	SB 30	O	C	3SB31 10-4FD01	1 unit	0.062
CES	SSG 10	O+I	C	3SB31 10-4RD51	1 unit	0.144
BKS	S1	I	C	3SB31 10-5FD21	1 unit	0.145

For special designs, see page 9/39.

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Designed to FIAT specification; also available for other customers.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Plastic version, square
Actuating and signaling elements

Version	Color of actuator / position for key removal	DT	Order No.	PS*	Weight per PU, approx. kg
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EMERGENCY-STOP control devices according to EN 418 and IEC 60947-5-5 with holder¹⁾²⁾ Also for use with 3TK28 contactor safety combinations (see Section 11)



EMERGENCY-STOP
mushroom pushbutton



EMERGENCY-STOP
mushroom pushbutton
with key-operated switch

Mushroom pushbutton, Ø 40 mm, with positive latching, rotate to unlatch the knob to the left	red		B	3SB31 10-1HA20	1 unit	0.056
Mushroom pushbutton, Ø 40 mm, with positive latching, with RONIS key-operated switch (with 2 keys), lock No. SB 30, unlatching is only possible with a key	red ON/OFF		B	3SB31 10-1BA20	1 unit	0.089
Mushroom pushbutton, Ø 40 mm, with positive latching, with CES key-operated switch (with 2 keys), lock No. SSG 10, unlatching is only possible with a key	red ON/OFF		B	3SB31 10-1KA20	1 unit	0.118
Mushroom pushbutton, Ø 40 mm, with positive latching, with BKS key-operated switch (with 2 keys), lock No. S1, unlocking only possible using key	red ON/OFF		B	3SB31 10-1LA20	1 unit	0.118
Mushroom pushbutton, Ø 40 mm, with positive latching function, with O.M.R. key-operated switch (with 2 keys), lock No. 73037, unlatching is only possible with a key	red ON/OFF		B	3SB31 10-1MA20	1 unit	0.125

For special designs, see page 9/39.

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) The yellow backing plate must be ordered separately, see Accessories.

Version	Color of lens	DT	Order No.	PS*	Weight per PU, approx. kg
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Signaling elements with holder¹⁾



Indicator light

Indicator light	red	B	3SB31 11-6AA20	5 units	0.024
	yellow	B	3SB31 11-6AA30	5 units	0.024
	green	B	3SB31 11-6AA40	5 units	0.024
	blue	B	3SB31 11-6AA50	5 units	0.024
	white	B	3SB31 11-6AA60	5 units	0.024
	clear	B	3SB31 11-6AA70	5 units	0.024

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Metal version, round
Complete unit combinations

Selection and ordering data

Version	Lamp voltage	Color of actuator	Contacts for front plate mounting version	DT	Order No.	PS*	Weight per PU, approx.
	V						kg
		Pushbutton with flat button	black	1 NO	▶ 3SB36 02-0AA11	1 unit	0.092
			black	1 NC	B 3SB36 03-0AA11	1 unit	0.092
			red	1 NC	▶ 3SB36 03-0AA21	1 unit	0.092
			yellow	1 NO	B 3SB36 02-0AA31	1 unit	0.090
			green	1 NO	▶ 3SB36 02-0AA41	1 unit	0.090
			blue	1 NO	B 3SB36 02-0AA51	1 unit	0.092
			white	1 NO	▶ 3SB36 02-0AA61	1 unit	0.092
			black	1 NO + 1 NC	B 3SB36 01-0AA11	1 unit	0.099
			red	1 NO + 1 NC	B 3SB36 01-0AA21	1 unit	0.097
			yellow	1 NO + 1 NC	B 3SB36 01-0AA31	1 unit	0.097
			green	1 NO + 1 NC	B 3SB36 01-0AA41	1 unit	0.097
			blue	1 NO + 1 NC	B 3SB36 01-0AA51	1 unit	0.097
			white	1 NO + 1 NC	B 3SB36 01-0AA61	1 unit	0.097
	AC/DC 24	Illuminated pushbutton with flat button with integrated LED	red ¹⁾	1 NC	▶ 3SB36 46-0AA21	1 unit	0.100
			yellow ¹⁾	1 NO	B 3SB36 45-0AA31	1 unit	0.103
			green ¹⁾	1 NO	▶ 3SB36 45-0AA41	1 unit	0.103
			blue ¹⁾	1 NO	B 3SB36 45-0AA51	1 unit	0.101
			white	1 NO	B 3SB36 45-0AA61	1 unit	0.103
			clear ¹⁾	1 NO	▶ 3SB36 45-0AA71	1 unit	0.101
			red ¹⁾	1 NO + 1 NC	B 3SB36 47-0AA21	1 unit	0.107
			yellow ¹⁾	1 NO + 1 NC	B 3SB36 47-0AA31	1 unit	0.107
			green ¹⁾	1 NO + 1 NC	B 3SB36 47-0AA41	1 unit	0.107
			blue ¹⁾	1 NO + 1 NC	B 3SB36 47-0AA51	1 unit	0.107
			white	1 NO + 1 NC	B 3SB36 47-0AA61	1 unit	0.110
			clear ¹⁾	1 NO + 1 NC	B 3SB36 47-0AA71	1 unit	0.107
	AC 110	with integrated LED	red ¹⁾	1 NC	B 3SB36 50-0AA21	1 unit	0.103
			yellow ¹⁾	1 NO	B 3SB36 57-0AA31	1 unit	0.095
			green ¹⁾	1 NO	B 3SB36 57-0AA41	1 unit	0.103
			blue ¹⁾	1 NO	B 3SB36 57-0AA51	1 unit	0.109
			white	1 NO	B 3SB36 57-0AA61	1 unit	0.099
			clear ¹⁾	1 NO	B 3SB36 57-0AA71	1 unit	0.095
			red ¹⁾	1 NO + 1 NC	B 3SB36 51-0AA21	1 unit	0.108
			yellow ¹⁾	1 NO + 1 NC	B 3SB36 51-0AA31	1 unit	0.103
			green ¹⁾	1 NO + 1 NC	B 3SB36 51-0AA41	1 unit	0.108
			blue ¹⁾	1 NO + 1 NC	D 3SB36 51-0AA51	1 unit	0.103
			white	1 NO + 1 NC	B 3SB36 51-0AA61	1 unit	0.102
			clear ¹⁾	1 NO + 1 NC	D 3SB36 51-0AA71	1 unit	0.107
	AC 230	with integrated LED	red ¹⁾	1 NC	▶ 3SB36 54-0AA21	1 unit	0.101
			yellow ¹⁾	1 NO	B 3SB36 53-0AA31	1 unit	0.103
			green ¹⁾	1 NO	▶ 3SB36 53-0AA41	1 unit	0.104
			blue ¹⁾	1 NO	B 3SB36 53-0AA51	1 unit	0.103
			white	1 NO	B 3SB36 53-0AA61	1 unit	0.101
			clear ¹⁾	1 NO	▶ 3SB36 53-0AA71	1 unit	0.101
			red ¹⁾	1 NO + 1 NC	B 3SB36 55-0AA21	1 unit	0.106
			yellow ¹⁾	1 NO + 1 NC	B 3SB36 55-0AA31	1 unit	0.106
			green ¹⁾	1 NO + 1 NC	B 3SB36 55-0AA41	1 unit	0.108
			blue ¹⁾	1 NO + 1 NC	D 3SB36 55-0AA51	1 unit	0.102
			white	1 NO + 1 NC	B 3SB36 55-0AA61	1 unit	0.108
			clear ¹⁾	1 NO + 1 NC	B 3SB36 55-0AA71	1 unit	0.102
	with lampholder BA 9s, (without lamp)		red ¹⁾	1 NC	B 3SB36 07-0AA21	1 unit	0.100
			yellow ¹⁾	1 NO	B 3SB36 06-0AA31	1 unit	0.102
			green ¹⁾	1 NO	B 3SB36 06-0AA41	1 unit	0.102
			blue ¹⁾	1 NO	B 3SB36 06-0AA51	1 unit	0.100
			white	1 NO	B 3SB36 06-0AA61	1 unit	0.102
			clear ¹⁾	1 NO	B 3SB36 06-0AA71	1 unit	0.100
			red ¹⁾	1 NO + 1 NC	B 3SB36 05-0AA21	1 unit	0.107
			yellow ¹⁾	1 NO + 1 NC	B 3SB36 05-0AA31	1 unit	0.105
			green ¹⁾	1 NO + 1 NC	B 3SB36 05-0AA41	1 unit	0.107
			blue ¹⁾	1 NO + 1 NC	B 3SB36 05-0AA51	1 unit	0.107
			white	1 NO + 1 NC	B 3SB36 05-0AA61	1 unit	0.106
			clear ¹⁾	1 NO + 1 NC	B 3SB36 05-0AA71	1 unit	0.106

1) Inscription is possible by inserting a label.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Metal version, round
Complete unit combinations

Version	Color of actuator	Contacts for front plate mounting	DT	Order No.	PS*	Weight per PU, approx. kg
	red	1 NC	B	3SB36 03-1CA21	1 unit	0.100
		1 NO + 1 NC	B	3SB36 01-1CA21	1 unit	0.107
Mushroom push-pull button						
EMERGENCY-STOP control devices according to EN 418 with yellow name plate, Ø 80 mm, labeled. Can also be used with 3TK28 contactor safety combinations (see Section 11)						
	red	1 NC	→ ¹⁾ ▶	3SB36 03-1HA20	1 unit	0.131
		1 NO + 1 NC	→ ¹⁾ B	3SB36 01-1HA20	1 unit	0.137
Mushroom pushbutton, Ø 40 mm with positive latching rotate to unlatch						
	red	1 NC	→ ¹⁾	3SB36 03-1TA20	1 unit	0.131
		1 NO + 1 NC	→ ¹⁾ B	3SB36 01-1TA20	1 unit	0.137
Mushroom pushbutton, Ø 40 mm with positive latching pull to unlatch						
EMERGENCY-STOP mushroom pushbutton with pull-to-unlatch mechanism						

1) Positive opening according to IEC 60947-5-1, Appendix K.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Metal version, round
Complete unit combinations



Non-illuminated selector switch

Version	Color of handle/ lock No.	Contacts for front plate mounting version	DT	Order No.	PS*	Weight per PU, approx. kg
Selector switch, 2 switch positions switching sequence O-I 50° operating angle latching 	black, standard version	1 NO 1 NO + 1 NC	▶ B	3SB36 02-2KA11 3SB36 01-2KA11	1 unit 1 unit	0.095 0.102
	black, heavy duty version	1 NO 1 NO + 1 NC	C C	3SB36 02-2PA11 3SB36 01-2PA11	1 unit 1 unit	0.111 0.119
	black, standard version	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	▶ B ▶ B	3SB36 10-2DA11 3SB36 08-2DA11	1 unit 1 unit	0.105 0.117
	black, heavy duty version	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	C C	3SB36 10-2SA11 3SB36 08-2SA11	1 unit 1 unit	0.121 0.134
Selector switch, 3 switch positions switching sequence I-O-II 2 × 50° operating angle latching 	black, standard version	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	▶ B ▶ B	3SB36 10-2EA11 3SB36 08-2EA11	1 unit 1 unit	0.103 0.119
	black, heavy duty version	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	C C	3SB36 10-2TA11 3SB36 08-2TA11	1 unit 1 unit	0.122 0.135
Key-operated switch RONIS, flat, 2 switch positions, key can be removed in any position switching sequence O-I, 50° operating angle, latching 	SB 30	1 NO 1 NO + 1 NC	▶ B	3SB36 02-4AD11 3SB36 01-4AD11	1 unit 1 unit	0.119 0.124



RONIS key-operated switch

Version	Lamp voltage	Color of lens	DT	Order No.	PS*	Weight per PU, approx. kg
Indicator light with lens with concentric rings, with integrated LED 	AC/DC 24 V	red	▶ B	3SB36 44-6BA20	1 unit	0.080
		yellow	B	3SB36 44-6BA30	1 unit	0.080
		green	▶ B	3SB36 44-6BA40	1 unit	0.081
		blue	B	3SB36 44-6BA50	1 unit	0.080
		white	B	3SB36 44-6BA60	1 unit	0.080
		clear	▶ B	3SB36 44-6BA70	1 unit	0.080
Indicator light 	AC 110	red	B	3SB36 48-6BA20	1 unit	0.081
		yellow	B	3SB36 48-6BA30	1 unit	0.081
		green	B	3SB36 48-6BA40	1 unit	0.081
		blue	B	3SB36 48-6BA50	1 unit	0.077
		white	B	3SB36 48-6BA60	1 unit	0.081
		clear	B	3SB36 48-6BA70	1 unit	0.075
Indicator light 	AC 230	red	▶ B	3SB36 52-6BA20	1 unit	0.081
		yellow	B	3SB36 52-6BA30	1 unit	0.081
		green	▶ B	3SB36 52-6BA40	1 unit	0.081
		blue	B	3SB36 52-6BA50	1 unit	0.079
		white	B	3SB36 52-6BA60	1 unit	0.081
		clear	▶ B	3SB36 52-6BA70	1 unit	0.081
Indicator light 		red	B	3SB36 04-6BA20	1 unit	0.079
		yellow	B	3SB36 04-6BA30	1 unit	0.079
		green	B	3SB36 04-6BA40	1 unit	0.080
		blue	B	3SB36 04-6BA50	1 unit	0.077
		white	B	3SB36 04-6BA60	1 unit	0.079
		clear	B	3SB36 04-6BA70	1 unit	0.077

Indicator light

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Metal version, round
Actuating and signaling elements

Selection and ordering data

Version	Inscription	Color of actuator	DT	Order No.	PS*	Weight per PU, approx. kg
Pushbuttons with holders						
	Pushbutton with flat button	black	▶	3SB35 00-0AA11	5 units	0.074
		red	▶	3SB35 00-0AA21	5 units	0.074
		yellow	B	3SB35 00-0AA31	5 units	0.074
		green	▶	3SB35 00-0AA41	5 units	0.074
		blue	B	3SB35 00-0AA51	5 units	0.074
		white	▶	3SB35 00-0AA61	5 units	0.074
		gray	▶	3SB35 00-0AB51	5 units	0.073
		clear ¹⁾	B	3SB35 00-0AA71	5 units	0.074
		I	B	3SB35 00-0AA81	5 units	0.074
		O	B	3SB35 00-0AB01	5 units	0.074
	Pushbutton with raised button	red	B	3SB35 00-0AB11	5 units	0.074
		white	B	3SB35 00-0AB11	5 units	0.074
		black	B	3SB35 00-0AB21	5 units	0.074
		black	B	3SB35 00-0BA11	1 unit	0.075
		red	B	3SB35 00-0BA21	1 unit	0.075
		yellow	B	3SB35 00-0BA31	1 unit	0.075
		green	B	3SB35 00-0BA41	1 unit	0.074
		blue	B	3SB35 00-0BA51	1 unit	0.073
		white	B	3SB35 00-0BA61	1 unit	0.075
		black	B	3SB35 00-0BA12	1 unit	0.075
	Pushbutton with raised front ring (Height 15.5 mm)	red	B	3SB35 00-0AA22	1 unit	0.079
		yellow	B	3SB35 00-0AA32	1 unit	0.074
		green	B	3SB35 00-0AA42	1 unit	0.075
		blue	B	3SB35 00-0AA52	1 unit	0.074
		white	B	3SB35 00-0AA62	1 unit	0.079
	Illuminated pushbutton with flat button incl. holder for 3 elements	black	▶	3SB35 01-0AA21	5 units	0.075
		red ¹⁾	B	3SB35 01-0AA31	5 units	0.075
		yellow ¹⁾	▶	3SB35 01-0AA41	5 units	0.075
		green ¹⁾	B	3SB35 01-0AA51	5 units	0.075
		blue ¹⁾	B	3SB35 01-0AA61	5 units	0.075
		white	▶	3SB35 01-0AA71	5 units	0.075
		clear ¹⁾	▶	3SB35 01-0AA71	5 units	0.075
		red	B	3SB35 01-0BA21	1 unit	0.074
		yellow	B	3SB35 01-0BA31	1 unit	0.075
		green	B	3SB35 01-0BA41	1 unit	0.076
	Illuminated pushbutton with raised button incl. holder for 3 elements	blue	B	3SB35 01-0BA51	1 unit	0.076
		clear	B	3SB35 01-0BA71	1 unit	0.075
		black	B	3SB35 00-0DA11	1 unit	0.077
		red	B	3SB35 00-0DA21	1 unit	0.076
		yellow	B	3SB35 00-0DA31	1 unit	0.076
		green	B	3SB35 00-0DA41	1 unit	0.077
		blue	B	3SB35 00-0DA51	1 unit	0.078
		white	B	3SB35 00-0DA61	1 unit	0.075
		gray	B	3SB35 00-0DB51	1 unit	0.077
		red ¹⁾	B	3SB35 01-0DA21	1 unit	0.078
	Pushbutton with flat button, latching, unlatching by pressing again	yellow ¹⁾	B	3SB35 01-0DA31	1 unit	0.078
		green ¹⁾	B	3SB35 01-0DA41	1 unit	0.078
		blue ¹⁾	B	3SB35 01-0DA51	1 unit	0.075
		white	B	3SB35 01-0DA61	1 unit	0.078
		clear ¹⁾	B	3SB35 01-0DA71	1 unit	0.078
		red ¹⁾	B	3SB35 01-0DA21	1 unit	0.078
		yellow ¹⁾	B	3SB35 01-0DA31	1 unit	0.078
		green ¹⁾	B	3SB35 01-0DA41	1 unit	0.078
		blue ¹⁾	B	3SB35 01-0DA51	1 unit	0.075
		white	B	3SB35 01-0DA61	1 unit	0.078
		clear ¹⁾	B	3SB35 01-0DA71	1 unit	0.078

1) Inscription is possible by inserting a label.

* This quantity or a multiple thereof can be ordered

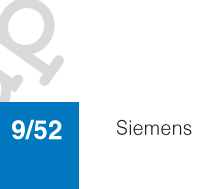
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Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Metal version, round
Actuating and signaling elements

Version	Color of actuator	DT	Order No.	PS*	Weight per PU, approx. kg
Mushroom pushbuttons with holders					
	black red yellow green	B	3SB35 00-1DA11	1 unit	0.080
		B	3SB35 00-1DA21	1 unit	0.081
		B	3SB35 00-1DA31	1 unit	0.081
		B	3SB35 00-1DA41	1 unit	0.080
	black red yellow green	B	3SB35 00-1GA11	1 unit	0.084
		B	3SB35 00-1GA21	1 unit	0.084
		B	3SB35 00-1GA31	1 unit	0.084
		B	3SB35 00-1GA41	1 unit	0.084
	black red yellow green	B	3SB35 00-1QA11	1 unit	0.090
		B	3SB35 00-1QA21	1 unit	0.090
		B	3SB35 00-1QA31	1 unit	0.090
		B	3SB35 00-1QA41	1 unit	0.090
	yellow green white	B	3SB35 01-1DA31	1 unit	0.080
		B	3SB35 01-1DA41	1 unit	0.079
		B	3SB35 01-1DA61	1 unit	0.081
	yellow green white	B	3SB35 01-1GA31	1 unit	0.084
		B	3SB35 01-1GA41	1 unit	0.085
		B	3SB35 01-1GA61	1 unit	0.085
	yellow green white	B	3SB35 01-1QA31	1 unit	0.091
		B	3SB35 01-1QA41	1 unit	0.091
		B	3SB35 01-1QA61	1 unit	0.090
	black red	B	3SB35 00-1EA11	1 unit	0.081
		B	3SB35 00-1EA21	1 unit	0.080
	black red	B	3SB35 00-1CA11	1 unit	0.084
		B	3SB35 00-1CA21	1 unit	0.084
	black red	B	3SB35 00-1RA11	1 unit	0.090
		B	3SB35 00-1RA21	1 unit	0.091
	red yellow green blue clear	B	3SB35 01-1EA21	1 unit	0.082
		B	3SB35 01-1EA31	1 unit	0.080
		B	3SB35 01-1EA41	1 unit	0.080
		B	3SB35 01-1EA51	1 unit	0.082
		B	3SB35 01-1EA71	1 unit	0.080
		B	3SB35 01-1EA21	1 unit	0.084
	red yellow green blue clear	B	3SB35 01-1CA21	1 unit	0.084
		B	3SB35 01-1CA31	1 unit	0.085
		B	3SB35 01-1CA41	1 unit	0.086
		B	3SB35 01-1CA51	1 unit	0.084
		B	3SB35 01-1CA71	1 unit	0.084
		B	3SB35 01-1RA21	1 unit	0.092
	red yellow green blue clear	B	3SB35 01-1RA21	1 unit	0.092
		B	3SB35 01-1RA31	1 unit	0.089
		D	3SB35 01-1RA41	1 unit	0.090
		B	3SB35 01-1RA51	1 unit	0.120
		D	3SB35 01-1RA71	1 unit	0.090
		D	3SB35 01-1RA71	1 unit	0.090

Mushroom pushbutton,
Ø 30 mm

Mushroom pushbutton,
Ø 40 mm

Illuminated mushroom push-
button, Ø 60 mm

Push-pull button,
Ø 30 mm

Push-pull button,
Ø 40 mm

Push-pull button,
Ø 60 mm, can be illuminated

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Metal version, round
Actuating and signaling elements

Version	Version Illumination	Color of actuator	DT	Order No.	PS*	Weight per PU, approx. kg
Selector switches with holders						
	Selector switch with 2 switch positions Switching sequence O-I, 90° operating angle, latching 	Non-illuminated, standard version	black red green white	▶ 3SB35 00-2HA11	1 unit	0.077
				A 3SB35 00-2HA21	1 unit	0.077
				D 3SB35 00-2HA41	1 unit	0.077
				B 3SB35 00-2HA61	1 unit	0.077
	Switching sequence O-I, 50° operating angle, latching 	Non-illuminated, standard version	black red green white	▶ 3SB35 00-2KA11	1 unit	0.078
				B 3SB35 00-2KA21	1 unit	0.078
				B 3SB35 00-2KA41	1 unit	0.078
				B 3SB35 00-2KA61	1 unit	0.078
	Switching sequence O-I, 50° operating angle, latching 	Illuminated, standard version, incl. holder for 3 elements	red yellow green blue clear	B 3SB35 01-2KA21	1 unit	0.078
				B 3SB35 01-2KA31	1 unit	0.078
				B 3SB35 01-2KA41	1 unit	0.079
				B 3SB35 01-2KA51	1 unit	0.079
	Switching sequence O-I, 50° operating angle, latching 	Non-illuminated, heavy-duty version	black red green white	C 3SB35 00-2PA11	1 unit	0.102
				C 3SB35 00-2PA21	1 unit	0.103
				C 3SB35 00-2PA41	1 unit	0.101
				C 3SB35 00-2PA61	1 unit	0.101
	Switching sequence O-I, 50° operating angle, latching 	Illuminated, heavy-duty version, incl. holder for 3 elements	red yellow green blue clear	C 3SB35 01-2PA21	1 unit	0.103
				C 3SB35 01-2PA31	1 unit	0.102
				C 3SB35 01-2PA41	1 unit	0.103
				C 3SB35 01-2PA51	1 unit	0.103
	Switching sequence O-I, 50° operating angle, latching 	Non-illuminated, long handle	black red green white	C 3SB35 00-3PA11	1 unit	0.101
				C 3SB35 00-3PA21	1 unit	0.101
				C 3SB35 00-3PA41	1 unit	0.102
				C 3SB35 00-3PA61	1 unit	0.104
	Switching sequence O-I, 50° operating angle, latching 	Illuminated, long handle, incl. holder for 3 elements	red yellow green blue clear	C 3SB35 01-3PA21	1 unit	0.103
				C 3SB35 01-3PA31	1 unit	0.103
				C 3SB35 01-3PA41	1 unit	0.103
				C 3SB35 01-3PA51	1 unit	0.103
	Switching sequence O-I, 50° operating angle, latching 	Non-illuminated, standard version	black red green white	▶ 3SB35 00-2LA11	1 unit	0.078
				B 3SB35 00-2LA21	1 unit	0.075
				B 3SB35 00-2LA41	1 unit	0.076
				B 3SB35 00-2LA61	1 unit	0.078
	Switching sequence O-I, 50° operating angle, latching 	Illuminated, standard version, incl. holder for 3 elements	red yellow green blue clear	B 3SB35 01-2LA21	1 unit	0.080
				B 3SB35 01-2LA31	1 unit	0.082
				B 3SB35 01-2LA41	1 unit	0.078
				B 3SB35 01-2LA51	1 unit	0.077
	Switching sequence O-I, 50° operating angle, latching 	Non-illuminated, heavy-duty version	black red green white	C 3SB35 00-2QA11	1 unit	0.103
				C 3SB35 00-2QA21	1 unit	0.098
				C 3SB35 00-2QA41	1 unit	0.101
				C 3SB35 00-2QA61	1 unit	0.101
	Switching sequence O-I, 50° operating angle, latching 	Illuminated, heavy-duty version, incl. holder for 3 elements	red yellow green blue clear	C 3SB35 01-2QA21	1 unit	0.103
				C 3SB35 01-2QA31	1 unit	0.102
				C 3SB35 01-2QA41	1 unit	0.103
				C 3SB35 01-2QA51	1 unit	0.101
	Switching sequence O-I, 50° operating angle, latching 	Non-illuminated, long handle	black red green white	C 3SB35 00-3QA11	1 unit	0.102
				C 3SB35 00-3QA21	1 unit	0.100
				C 3SB35 00-3QA41	1 unit	0.100
				C 3SB35 00-3QA61	1 unit	0.102
	Switching sequence O-I, 50° operating angle, latching 	Illuminated, long handle, incl. holder for 3 elements	red yellow green blue clear	C 3SB35 01-3QA21	1 unit	0.102
				C 3SB35 01-3QA31	1 unit	0.103
				C 3SB35 01-3QA41	1 unit	0.103
				C 3SB35 01-3QA51	1 unit	0.103
	Switching sequence O-I, 50° operating angle, latching 	Non-illuminated, standard version	black red green white	▶ 3SB35 00-2LA11	1 unit	0.078
				B 3SB35 00-2LA21	1 unit	0.075
				B 3SB35 00-2LA41	1 unit	0.076
				B 3SB35 00-2LA61	1 unit	0.078
	Switching sequence O-I, 50° operating angle, latching 	Illuminated, standard version, incl. holder for 3 elements	red yellow green blue clear	B 3SB35 01-2LA21	1 unit	0.080
				B 3SB35 01-2LA31	1 unit	0.082
				B 3SB35 01-2LA41	1 unit	0.078
				B 3SB35 01-2LA51	1 unit	0.077
	Switching sequence O-I, 50° operating angle, latching 	Non-illuminated, heavy-duty version	black red green white	C 3SB35 00-2QA11	1 unit	0.103
				C 3SB35 00-2QA21	1 unit	0.098
				C 3SB35 00-2QA41	1 unit	0.101
				C 3SB35 00-2QA61	1 unit	0.101
	Switching sequence O-I, 50° operating angle, latching 	Illuminated, heavy-duty version, incl. holder for 3 elements	red yellow green blue clear	C 3SB35 01-2QA21	1 unit	0.103
				C 3SB35 01-2QA31	1 unit	0.102
				C 3SB35 01-2QA41	1 unit	0.103
				C 3SB35 01-2QA51	1 unit	0.101
	Switching sequence O-I, 50° operating angle, latching 	Non-illuminated, long handle	black red green white	C 3SB35 00-3QA11	1 unit	0.102
				C 3SB35 00-3QA21	1 unit	0.100
				C 3SB35 00-3QA41	1 unit	0.100
				C 3SB35 00-3QA61	1 unit	0.102
	Switching sequence O-I, 50° operating angle, latching 	Illuminated, long handle, incl. holder for 3 elements	red yellow green blue clear	C 3SB35 01-3QA21	1 unit	0.102
				C 3SB35 01-3QA31	1 unit	0.103
				C 3SB35 01-3QA41	1 unit	0.103
				C 3SB35 01-3QA51	1 unit	0.103

* This quantity or a multiple thereof can be ordered

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Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Metal version, round
Actuating and signaling elements

	Version	Version illumination	Color of actuator	DT	Order No.	PS*	Weight per PU, approx. kg
Selector switches with holders							
 Selector switch, 3 switch positions, standard version	Non-illuminated selector switch with 3 switch positions						
	Switching sequence I-O-II 2 × 50° operating angle latching						
							
 Selector switch, 3 switch positions, heavy-duty version	Non-illuminated, standard version						
 Selector switch, 3 switch positions, long handle	Non-illuminated, heavy-duty version						
	Non-illuminated, long handle						
	Illuminated, standard version						
	Illuminated, heavy-duty version						
	Illuminated, long handle, incl. holder for 3 elements						
	Non-illuminated, standard version						
	Illuminated, standard version						
	Non-illuminated, heavy-duty version						
	Illuminated, heavy-duty version						
	Non-illuminated, long handle						
	Illuminated, long handle						

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Metal version, round
Actuating and signaling elements

Version		Color of actuator	DT	Order No.	PS*	Weight per PU, approx. kg
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Selector switches with holders



Selector switch,
3 switch positions,
standard version

Non-illuminated selector switch with 3 switch positions

Switching sequence I-O-II
2 × 50° operating angle
momentary contact type to the left,
latching to the right
(return from left)



**Non-illuminated,¹⁾
standard
version**

black
red
green
white

B
B
B
B

3SB35 00-2GA11
3SB35 00-2GA21
3SB35 00-2GA41
3SB35 00-2GA61

1 unit 0.078
1 unit 0.076
1 unit 0.075
1 unit 0.076

**Non-illuminated,
heavy-duty
version**

black
red
green
white

C
C
C
C

3SB35 00-2VA11
3SB35 00-2VA21
3SB35 00-2VA41
3SB35 00-2VA61

1 unit 0.102
1 unit 0.102
1 unit 0.100
1 unit 0.100

**Non-illuminated,
long handle**

black
red
green
white

C
C
C
C

3SB35 00-3VA11
3SB35 00-3VA21
3SB35 00-3VA41
3SB35 00-3VA61

1 unit 0.101
1 unit 0.102
1 unit 0.100
1 unit 0.100



Selector switch,
3 switch positions,
heavy-duty version

Switching sequence I-O-II
2 × 50° operating angle
latching to the left,
momentary contact type to the right
(return from right)



**Non-illuminated,¹⁾
standard
version**

black
red
green
white

B
B
B
B

3SB35 00-2FA11
3SB35 00-2FA21
3SB35 00-2FA41
3SB35 00-2FA61

1 unit 0.077
1 unit 0.076
1 unit 0.075
1 unit 0.076

**Non-illuminated,
heavy-duty
version**

black
red
green
white

C
C
C
C

3SB35 00-2UA11
3SB35 00-2UA21
3SB35 00-2UA41
3SB35 00-2UA61

1 unit 0.101
1 unit 0.101
1 unit 0.102
1 unit 0.101

**Non-illuminated,
long handle**

black
red
green
white

C
C
C
C

3SB35 00-3UA11
3SB35 00-3UA21
3SB35 00-3UA41
3SB35 00-3UA61

1 unit 0.102
1 unit 0.100
1 unit 0.100
1 unit 0.102



Selector switch,
3 switch positions,
long handle

1) Also available as illuminated selector switch. When ordering, add "-Z" to the order number and indicate "illuminated selector switch" and the color in plain text.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Metal version, round
Actuating and signaling elements

Version	Type	Lock No./ Color	Key removal position	DT	Order No.	PS*	Weight per PU, approx. kg
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Key-operated switches with holders

Key-operated switch with 2 keys, 2 switch positions

Switching sequence O-I,
50° operating angle,
latching



RONIS key-operated switch



CES key-operated switch



IKON key-operated switch



BKS key-operated switch



O.M.R. key-operated switch

Switching sequence O-I,
50° operating angle,
momentary contact type
(return from right)



RONIS	SB 30	O+I O I	▶ ▶ B	3SB35 00-4AD11 3SB35 00-4AD01 3SB35 00-4AD21	1 unit 1 unit 1 unit	0.108 0.108 0.107
CES	SSG 10	O+I O I	▶ ▶ B	3SB35 00-4LD11 3SB35 00-4LD01 3SB35 00-4LD21	1 unit 1 unit 1 unit	0.186 0.190 0.190
	LSG 1	O+I O	B B	3SB35 00-4LF01 3SB35 00-4LF11	1 unit 1 unit	0.187 0.190
IKON	360012 K1	O+I O	B B	3SB35 00-5LD11 3SB35 00-5LD01	1 unit 1 unit	0.196 0.196
BKS	S1	O+I O I	B B B	3SB35 00-5AD11 3SB35 00-5AD01 3SB35 00-5AD21	1 unit 1 unit 1 unit	0.184 0.188 0.186
	E1 for VW ¹⁾	O+I O O	B B B	3SB35 00-5AE01 3SB35 00-5AE11 3SB35 00-5AE21	1 unit 1 unit 1 unit	0.169 0.176 0.170
	E2 for VW ¹⁾	O+I O O	B B B	3SB35 00-5AE31	1 unit	0.174
	E7 for VW ¹⁾	O+I O O	B B B	3SB35 00-5AE41 3SB35 00-5AE51	1 unit 1 unit	0.170 0.176
	E9 for VW ¹⁾	O+I O O	B B B	3SB35 00-5AE61 3SB35 00-5AE71	1 unit 1 unit	0.169 0.174
O.M.R. ²⁾	73038 light blue	O+I O I	B B B	3SB35 00-3AG11 3SB35 00-3AG01 3SB35 00-3AG21	1 unit 1 unit 1 unit	0.173 0.175 0.173
	73037 red	O+I O I	B B B	3SB35 00-3AH11 3SB35 00-3AH01 3SB35 00-3AH21	1 unit 1 unit 1 unit	0.172 0.172 0.174
	73034 black	O+I O I	B B B	3SB35 00-3AJ11 3SB35 00-3AJ01 3SB35 00-3AJ21	1 unit 1 unit 1 unit	0.172 0.178 0.173
	73033 yellow	O+I O I	B B B	3SB35 00-3AK11 3SB35 00-3AK01 3SB35 00-3AK21	1 unit 1 unit 1 unit	0.174 0.172 0.178
RONIS	SB 30	O	▶	3SB35 00-4BD01	1 unit	0.108
CES	SSG 10	O	▶	3SB35 00-4MD01	1 unit	0.191
	LSG 1	O	B	3SB35 00-4MF11	1 unit	0.190
IKON	360012 K1	O	B	3SB35 00-5MD01	1 unit	0.195
BKS	S1	O	B	3SB35 00-5BD01	1 unit	0.187
O.M.R. ²⁾	73038 light blue	O	B	3SB35 00-3BG01	1 unit	0.174
	73037 red	O	B	3SB35 00-3BH01	1 unit	0.173
	73034 black	O	B	3SB35 00-3BJ01	1 unit	0.173
	73033 yellow	O	B	3SB35 00-3BK01	1 unit	0.174

For special designs, see page 9/39.

1) Supplied without the key.

2) Designed to FIAT specification; also available for other customers.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Metal version, round
Actuating and signaling elements

Version	Type	Lock No./ Color	Key removal position	DT	Order No.	PS*	Weight per PU, approx. kg
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Key-operated switches with holders

Key-operated switch with 2 keys, 3 switch positions

Switching sequence I-O-II
2 × 50° operating angle
latching



RONIS key-operated switch



CES key-operated switch



IKON key-operated switch



BKS key-operated switch



O.M.R. key-operated switch

Switching sequence I-O-II,
2 × 50° operating angle,
latching (return from right and left)



RONIS	SB 30	O+I+II	B	3SB35 00-4DD11	1 unit	0.108
		O	B	3SB35 00-4DD01	1 unit	0.108
		I+II	B	3SB35 00-4DD41	1 unit	0.112
		I	B	3SB35 00-4DD21	1 unit	0.108
		II	B	3SB35 00-4DD31	1 unit	0.107
		O+I	B	3SB35 00-4DD51	1 unit	0.110
CES	SSG 10	O+I+II	B	3SB35 00-4PD11	1 unit	0.187
		O	B	3SB35 00-4PD01	1 unit	0.191
		I+II	B	3SB35 00-4PD41	1 unit	0.189
		I	B	3SB35 00-4PD21	1 unit	0.190
		II	B	3SB35 00-4PD31	1 unit	0.191
IKON	360012 K1	O+I+II	B	3SB35 00-5PD11	1 unit	0.193
		O	B	3SB35 00-5PD01	1 unit	0.196
		I+II	C	3SB35 00-5PD41	1 unit	0.180
BKS	S1	O+I+II	B	3SB35 00-5DD11	1 unit	0.183
		O	C	3SB35 00-5DD01	1 unit	0.187
		I+II	C	3SB35 00-5DD41	1 unit	0.184
		I	B	3SB35 00-5DD21	1 unit	0.187
		II	C	3SB35 00-5DD31	1 unit	0.187
O.M.R. ¹⁾	73038 light blue	I+O+II	B	3SB35 00-3DG11	1 unit	0.171
		O	B	3SB35 00-3DG01	1 unit	0.171
		I+II	C	3SB35 00-3DG41	1 unit	0.174
	73037 red	I+O+II	B	3SB35 00-3DH11	1 unit	0.173
		O	B	3SB35 00-3DH01	1 unit	0.173
		I+II	C	3SB35 00-3DH41	1 unit	0.170
	73034 black	I+O+II	B	3SB35 00-3DJ11	1 unit	0.172
		O	B	3SB35 00-3DJ01	1 unit	0.173
		I+II	C	3SB35 00-3DJ41	1 unit	0.171
	73033 yellow	I+O+II	C	3SB35 00-3DK11	1 unit	0.172
		O	B	3SB35 00-3DK01	1 unit	0.173
		I+II	C	3SB35 00-3DK41	1 unit	0.173
RONIS	SB 30	O	B	3SB35 00-4ED01	1 unit	0.109
CES	SSG 10	O	B	3SB35 00-4QD01	1 unit	0.191
IKON	360012 K1	O	B	3SB35 00-5QD01	1 unit	0.196
BKS	S1	O	B	3SB35 00-5ED01	1 unit	0.189
O.M.R.	73038 light blue	O	C	3SB35 00-3EG01	1 unit	0.172
	73037 red	O	B	3SB35 00-3EH01	1 unit	0.175
	73034 black	O	B	3SB35 00-3EJ01	1 unit	0.173
	73033 yellow	O	B	3SB35 00-3EK01	1 unit	0.175

For special designs, see page 9/39.

1) Designed to FIAT specification; also available for other customers.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Metal version, round
Actuating and signaling elements

Version	Type	Lock No./ Color	Key removal position	DT	Order No.	PS*	Weight per PU, approx. kg
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Key-operated switches with holder

Key-operated switch with 2 keys, 3 switch positions

Switching sequence I-O-II
2 × 50° operating angle
momentary contact type to the left,
latching to the right
(return from left)



RONIS key-operated switch



CES key-operated switch



IKON key-operated switch



BKS key-operated switch



O.M.R. key-operated switch

Switching sequence I-O-II
2 × 50° operating angle
latching to the left,
momentary contact type to the right
(return from right)



RONIS	SB 30	O + II O II	B B B	3SB35 00-4GD61 3SB35 00-4GD01 3SB35 00-4GD31	1 unit 1 unit 1 unit	0.107 0.108 0.106
CES	SSG 10	O + II O II	B B B	3SB35 00-4SD61 3SB35 00-4SD01 3SB35 00-4SD31	1 unit 1 unit 1 unit	0.190 0.191 0.191
IKON	360012 K1	O II	C C	3SB35 00-5SD01 3SB35 00-5SD31	1 unit 1 unit	0.196 0.180
BKS	S1	O + II O II	C C B	3SB35 00-5GD61 3SB35 00-5GD01 3SB35 00-5GD31	1 unit 1 unit 1 unit	0.175 0.175 0.188
O.M.R.	73038 light blue 73037 red	O II O II	C C C C	3SB35 00-3GG01 3SB35 00-3GG31 3SB35 00-3GH01 3SB35 00-3GH31	1 unit 1 unit 1 unit 1 unit	0.165 0.174 0.173 0.165
	73034 black 73033 yellow	O II O II	C C C C	3SB35 00-3GJ01 3SB35 00-3GJ31 3SB35 00-3GK01 3SB35 00-3GK31	1 unit 1 unit 1 unit 1 unit	0.170 0.165 0.165 0.165
RONIS	SB 30	O+I O I	B B B	3SB35 00-4FD51 3SB35 00-4FD01 3SB35 00-4FD21	1 unit 1 unit 1 unit	0.107 0.108 0.109
CES	SSG 10	O+I O I	B B B	3SB35 00-4RD51 3SB35 00-4RD01 3SB35 00-4RD21	1 unit 1 unit 1 unit	0.191 0.191 0.191
IKON	360012 K1	O+I O I	C C B	3SB35 00-5RD51 3SB35 00-5RD01 3SB35 00-5RD21	1 unit 1 unit 1 unit	0.180 0.180 0.200
BKS	S1	O+I O I	C B B	3SB35 00-5FD51 3SB35 00-5FD01 3SB35 00-5FD21	1 unit 1 unit 1 unit	0.175 0.190 0.190
O.M.R.	73038 light blue 73037 red	O I O I	B B C C	3SB35 00-3FG01 3SB35 00-3FG21 3SB35 00-3FH01 3SB35 00-3FH21	1 unit 1 unit 1 unit 1 unit	0.173 0.172 0.175 0.165
	73034 black 73033 yellow	O I O I	B C B B	3SB35 00-3FJ01 3SB35 00-3FJ21 3SB35 00-3FK01 3SB35 00-3FK21	1 unit 1 unit 1 unit 1 unit	0.175 0.175 0.171 0.130

For special designs, see page 9/39.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Metal version, round
Actuating and signaling elements

Version	Color of actuator / position for key removal	DT	Order No.	PS*	Weight per PU, approx. kg
EMERGENCY-STOP control devices according to EN 418 and IEC 60947-5-5 with holder¹⁾ Also for use with 3TK28 contactor safety combinations (see Section 11)					
	EMERGENCY-STOP mushroom pushbutton, Ø 32 mm, with positive latching function acc. to EN 418, rotate to unlatch	red	B	3SB35 00-1FA20	1 unit 0.080
Mushroom diameter 32 mm					
	EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with positive latching function acc. to EN 418, rotate to unlatch	red	▶	3SB35 00-1HA20	1 unit 0.114
Mushroom diameter 40 mm, rotate to unlatch					
	with unlocking device		B	3SB35 00-1TA20	1 unit 0.113
	EMERGENCY-STOP mushroom pushbutton, Ø 60 mm, with positive latching function acc. to EN 418, rotate to unlatch	red	B	3SB35 00-1AA20	1 unit 0.145
Mushroom diameter 40 mm, pull to unlatch					
	EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with RONIS key-operated switch (with 2 keys), lock No. SB 30, with positive latching to EN 418, unlocking using key	red ON/OFF	B	3SB35 00-1BA20	1 unit 0.145
	EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with CES key-operated switch (with 2 keys), lock No. SSG 10, with positive latching to EN 418, unlocking using key	red ON/OFF	B	3SB35 00-1KA20	1 unit 0.173
Mushroom diameter 60 mm					
	EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with IKON key-operated switch (with 2 keys), lock No. 360012 K1, with positive latching to EN 418, unlocking using key	red ON/OFF	B	3SB35 00-1UA20	1 unit 0.173
	EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with BKS key-operated switch (with 2 keys), lock No. S1, with positive latching to EN 418, unlocking using key	red ON/OFF	B	3SB35 00-1LA20	1 unit 0.171
Mushroom diameter 40 mm, with key-operated switch					
	Mushroom pushbutton, Ø 40 mm, with O.M.R. key-operated switch (with 2 keys), lock No. 73037, with positive latching to EN 418, unlocking using key	red ON/OFF	B	3SB35 00-1MA20	1 unit 0.179

For special designs, see page 9/39.

1) The yellow backing plates must be ordered separately, see Accessories.

* This quantity or a multiple thereof can be ordered

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Metal version, round
Actuating and signaling elements

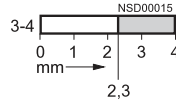
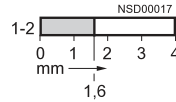
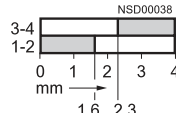
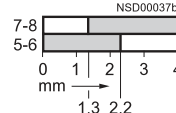
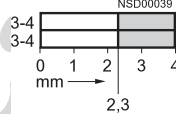
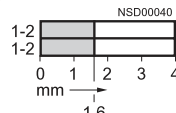
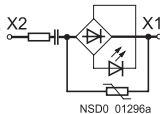
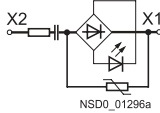
Version	Color of lens	DT	Order No.	PS*	Weight per PU, approx. kg
Signaling elements with holders					
 Indicator light with smooth lens	Indicator light with lens with concentric rings		red	▶ 3SB35 01-6BA20	5 units 0.062
		B	yellow	▶ 3SB35 01-6BA30	5 units 0.062
			green	▶ 3SB35 01-6BA40	5 units 0.062
		B	blue	▶ 3SB35 01-6BA50	5 units 0.062
		B	white	▶ 3SB35 01-6BA60	5 units 0.062
		B	clear	▶ 3SB35 01-6BA70	5 units 0.062
	Indicator light with smooth lens	B	red	▶ 3SB35 01-6AA20	5 units 0.062
		B	yellow	▶ 3SB35 01-6AA30	5 units 0.062
		B	green	▶ 3SB35 01-6AA40	5 units 0.062
		B	blue	▶ 3SB35 01-6AA50	5 units 0.062
		B	white	▶ 3SB35 01-6AA60	5 units 0.062
		B	clear	▶ 3SB35 01-6AA70	5 units 0.062

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Switch blocks and lampholders

Selection and ordering data

Version	Symbols	Color / contact travel	DT	Order No.	PS*	Weight per PU, approx. kg
		■ contact closed □ contact open				
Switch blocks with screw terminals, for front plate mounting						
	Switch block with one contact 50 mm mounting depth					
	1 NO			▶ 3SB34 00-0B	1 unit	0.011
	1 NC	→ ¹⁾ 		▶ 3SB34 00-0C	1 unit	0.011
	Switch blocks with 2 contacts 65 mm mounting depth (incl. device identification label)					
	1 NO + 1 NC	→ ¹⁾ 		▶ 3SB34 00-0A	1 unit	0.018
	1 NO leading + 1 NC delayed			B 3SB34 00-0H	1 unit	0.018
	2 NO			B 3SB34 00-0D	1 unit	0.018
	2 NC	→ ¹⁾ 		B 3SB34 00-0E	1 unit	0.018
	Lampholders with integrated LED					
	AC/DC 24 V		yellow red green blue white	B 3SB34 00-1PA ▶ 3SB34 00-1PB ▶ 3SB34 00-1PC B 3SB34 00-1PD ▶ 3SB34 00-1PE	1 unit 1 unit 1 unit 1 unit 1 unit	0.011 0.011 0.011 0.011 0.011
	AC 110 V		yellow red green blue white	B 3SB34 00-1QA B 3SB34 00-1QB B 3SB34 00-1QC B 3SB34 00-1QD B 3SB34 00-1QE	1 unit 1 unit 1 unit 1 unit 1 unit	0.011 0.012 0.012 0.011 0.012
	AC 230 V		yellow red green blue white	B 3SB34 00-1RA ▶ 3SB34 00-1RB ▶ 3SB34 00-1RC B 3SB34 00-1RD ▶ 3SB34 00-1RE	1 unit 1 unit 1 unit 1 unit 1 unit	0.012 0.012 0.012 0.012 0.012

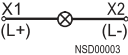
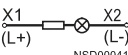
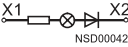
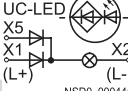
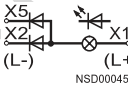
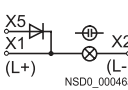
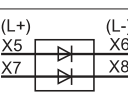
1) Positive opening according to IEC 60947-5-1, Appendix K.

* This quantity or a multiple thereof can be ordered

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Switch blocks and lampholders

Version	Rated voltage lamp V	Symbols	DT	Order No.	PS*	Weight per PU, approx. kg
Switch blocks with screw connection, for front plate mounting						
	BA 9s lampholder , 50 mm mounting depth					
	without lamp	according to lamp		▶ 3SB34 00-1A	1 unit	0.010
	with 24 V incandescent lamp (3SX1 344)	AC/DC 24 V		B 3SB34 00-1D	1 unit	0.012
	BA 9s lampholder , 50 mm mounting depth					
	with built-in resistor for longer endurance and with 130 V lamp (3SX1 731) ¹⁾	AC 110/130 V		B 3SB34 00-1B	1 unit	0.013
	with integrated voltage reducer and with 130 V lamp (3SX1 731) ¹⁾	AC 230/240 V		B 3SB34 00-1C	1 unit	0.013
	BA 9s lampholder , with separate lamp test function ^{2) 3)}					
	with integrated voltage reducer and with 130 V lamp (3SX1 731) ¹⁾	AC 230/240 V		B 3SB34 00-1F	1 unit	0.019
	without lamp	according to lamp		B 3SB34 00-1G	1 unit	0.016
	for incandescent lamp, max. 2.6 W for LED lamp, AC/DC Not suitable for LED, AC or DC					
	without lamp	according to lamp		B 3SB34 00-1L	1 unit	0.017
	for incandescent lamp, max. 2.6 W for LED lamp, AC or DC Also suitable for 230 V LED. For connecting to DC, X5 must be connected to L-.					
	without lamp	according to lamp		B 3SB34 00-1H	1 unit	0.016
	for incandescent lamp, max. 2.6 W for glow lamp, AC					
	Transformer					
	for snapping onto 3SB34 00-1A	127 V / 24 V		B 3SB34 00-3A	1 unit	0.109
		240 V / 24 V		B 3SB34 00-3C	1 unit	0.108
	lampholder for incandescent lamp,	400 V / 24 V		B 3SB34 00-3F	1 unit	0.108
	2 W	127 V / 6 V		B 3SB34 00-3M	1 unit	0.108
		240 V / 6 V		B 3SB34 00-3P	1 unit	0.107
		400 V / 6 V		B 3SB34 00-3S	1 unit	0.107
	Switch block with 2 diodes					
	Type 1N 4007	$U_{RMS} = \text{max. } 250 \text{ V}$ $I_{FAY} = 0.8 \text{ A}$ at $T_u = 60 \text{ °C}$		B 3SB34 00-1N	1 unit	0.015

1) Use these lamps only.

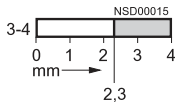
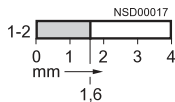
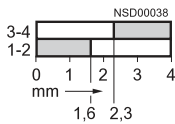
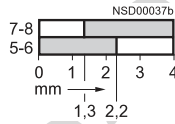
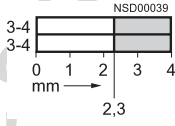
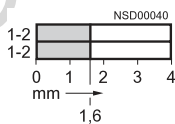
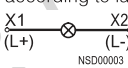
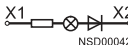
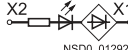
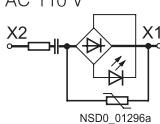
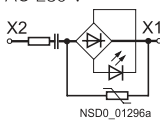
2) The lampholder with separate lamp test function can not be installed in an enclosure.

3) For example of circuits, see page 9/65.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Switch blocks and lampholders

Version	Rated voltage lamp/ graphic symbol	Color/ contact travel	DT	Order No.	PS*	Weight per PU, approx.
		contact closed contact open				kg
g-loaded terminals, for front panel mounting						
Switch block with 1 contact, 50 mm mounting depth, grid 30 mm x 30 mm						
1 NO			B	3SB34 03-0B	1 unit	0.008
1 NC			B	3SB34 03-0C	1 unit	0.008
Switch block with 2 contacts, 65 mm mounting depth						
1 NO + 1 NC			B	3SB34 03-0A	1 unit	0.008
1 NO leading + 1 NC delayed			B	3SB34 03-0H	1 unit	0.008
2 NO			B	3SB34 03-0D	1 unit	0.008
2 NC			B	3SB34 03-0E	1 unit	0.008
BA 9s lampholder, 50 mm mounting depth, 30 mm x 30 mm grid according to lamp						
without lamp			B	3SB34 03-1A	1 unit	0.008
with integrated voltage reducer and with 130 V lamp (3SX1 731) ²⁾			B	3SB34 03-1C	1 unit	0.010
Lampholder with integrated LED, 50 mm mounting depth, 30 mm x 30 mm grid						
AC/DC 24 V		yellow red green blue white	B B B B B	3SB34 03-1PA 3SB34 03-1PB 3SB34 03-1PC 3SB34 03-1PD 3SB34 03-1PE	1 unit 1 unit 1 unit 1 unit 1 unit	0.010 0.010 0.010 0.010 0.010
AC 110 V		yellow red green blue white	B B B B B	3SB34 03-1QA 3SB34 03-1QB 3SB34 03-1QC 3SB34 03-1QD 3SB34 03-1QE	1 unit 1 unit 1 unit 1 unit 1 unit	0.010 0.010 0.010 0.010 0.010
AC 230 V		yellow red green blue white	B B B B B	3SB34 03-1RA 3SB34 03-1RB 3SB34 03-1RC 3SB34 03-1RD 3SB34 03-1RE	1 unit 1 unit 1 unit 1 unit 1 unit	0.010 0.010 0.010 0.010 0.010

1) Positive opening according to IEC 60947-5-1, Appendix K.

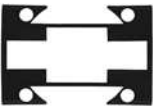
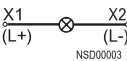
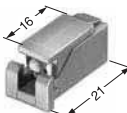
2) Use these lamps only.

* This quantity or a multiple thereof can be ordered

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Switch blocks and lampholders

Version	Symbols	Contact travel contact closed contact open	DT	Order No.	PS*	Weight per PU, approx. kg
Holders for 3 switch blocks, for front panel mounting						
	Holder for pushbuttons and switches¹⁾ for snapping on 3 switch blocks			▶ 3SB39 01-0AB	20 units	0.100
	Holder for selector switches, key-operated switches and On-Off pushbuttons with pressure plate for actuating the central contact block			▶ 3SB39 01-0AC	10 units	0.200
Switch blocks with soldering pins for use on printed circuit boards						
	Switch block with one contact 44 mm mounting depth 1 NO			B 3SB34 11-0B	1 unit	0.003
	1 NC			B 3SB34 11-0C	1 unit	0.003
	Lampholder wedge base W2 x 4.6 d, without lamp, 44 mm mounting depth			B 3SB34 11-1A	1 unit	0.002
Pressure plates for use on PCBs						
	Pressure plates for selector switches and key-operated switches for actuating the central switch block			B 3SB39 01-0AW	10 units	0.100
Accessories for PCBs						
	PCB holder for mounting the control devices on the PCB (screw supplied)			B 3SB39 01-0AA	10 units	0.100

1) Holder also for mushroom pushbutton and push-pull button.

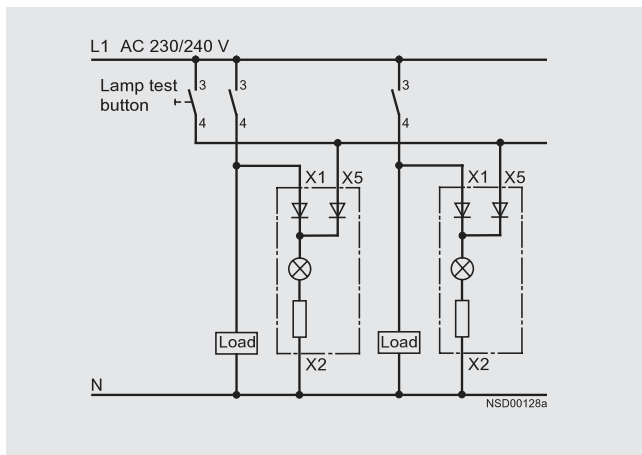
2) Positive opening according to IEC 60947-5-1, Appendix K.

Pushbuttons and Indicator Lights

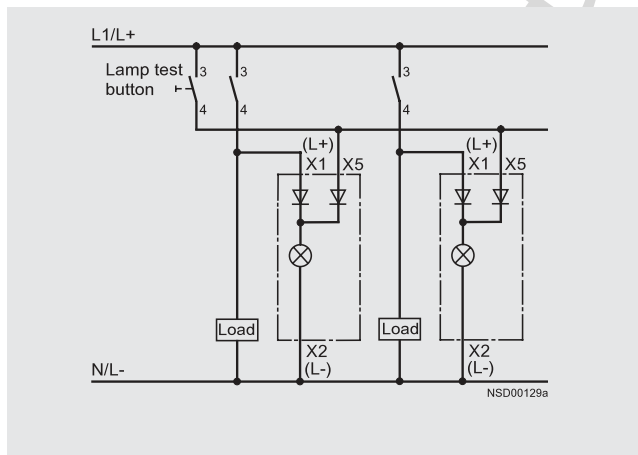
SIGNUM 22 mm Nominal Diameter

Switch blocks and lampholders

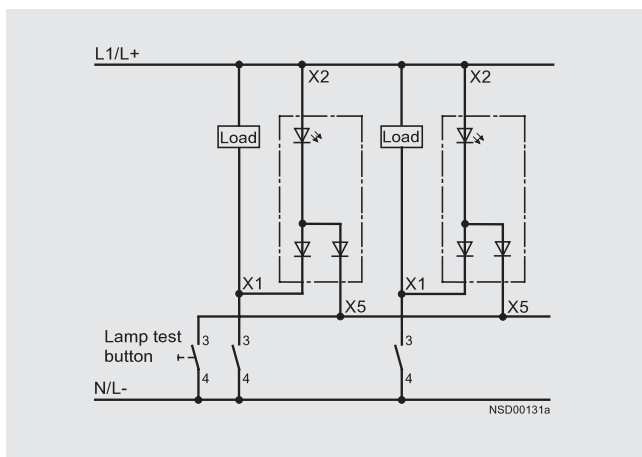
Circuit diagrams



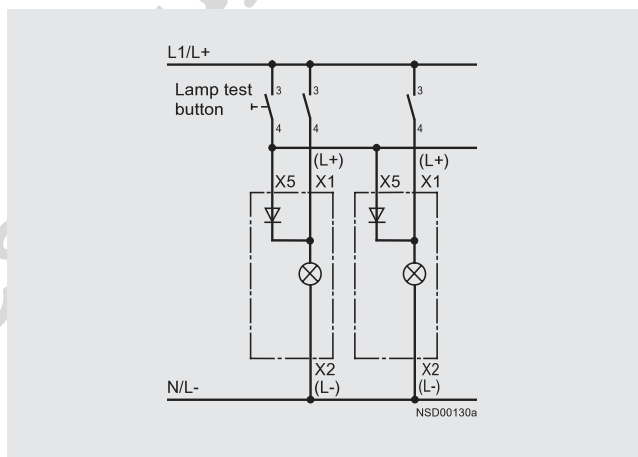
3SB34 00-1F lampholder
incl. 130 V incandescent lamp



3SB34 00-1G lampholder
for incandescent lamps, max. 2.6 W or LED lamps, AC/DC



3SB34 00-1L lampholder
for incandescent lamps, max. 2.6 W or LED lamps, AC or DC



3SB34 00-1H lampholder
for incandescent lamps, max. 2.6 W or glow lamps, AC

Application examples for 3SB34 00-1N diode elements

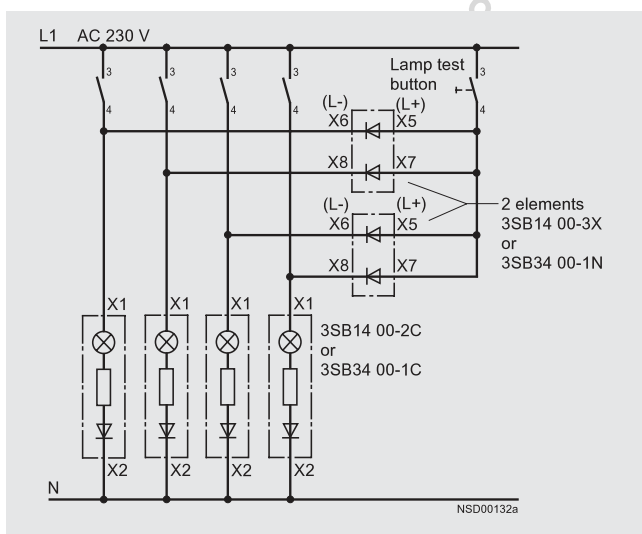
- Lamp test circuit,
- Interference suppression,
- Limiting voltage peaks,
- Limiting DC coils,
- Diode gates,
- Rectifier circuits.

The diode element contains 2 diodes 1N 4007. The element can be snapped onto the holder as required.

Notes on using the lampholders with separate lamp test function

For connecting inductive loads in parallel (e.g. contactors), overvoltage damping is necessary.

The 3SB34 00-1H element is not suitable for operation with a parallel load.



Example for lamp test circuit with 3SB34 00-1N element

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Accessories and spare parts

Insert labels

Overview

Pushbuttons (clear) and illuminated pushbuttons with a flat button can be fitted with insert labels for identification purposes.

These insert labels are made of clear, transparent molded-plastic with black inscription; they can be fitted in any 90° angle.

Inscription

The lettering has uppercase initial letters. The symbols, including those not listed in the catalog, are in accordance with DIN Report 4.

The insert labels without lettering are suitable for user marking with permanent pen.

Selection and ordering data

Inscription	DT	Insert label for pushbutton (clear) and illuminated pushbutton (flat) round design	PS*	Weight per PU, approx.	DT	Insert label for pushbutton (clear) and illuminated pushbutton (flat) square design	PS*	Weight per PU, approx.
								
		Order No.		kg		Order No.		kg
Without inscription	B	3SB19 01-4AS	10 units	0.100	B	3SB39 40-4AA	10 units	0.100
Ein	B	3SB19 01-4AB	10 units	0.100	B	3SB39 40-4AB	10 units	0.100
On	B	3SB19 01-4EB	10 units	0.100	C	3SB39 40-4EB	10 units	0.100
Off	B	3SB19 01-4AC	10 units	0.100	C	3SB39 40-4AC	10 units	0.100
Off	B	3SB19 01-4EC	10 units	0.100	C	3SB39 40-4EC	10 units	0.100
Auf	B	3SB19 01-4AD	10 units	0.100	B	3SB39 40-4AD	10 units	0.100
Up	B	3SB19 01-4ED	10 units	0.100	C	3SB39 40-4ED	10 units	0.100
Ab	B	3SB19 01-4AE	10 units	0.100	B	3SB39 40-4AE	10 units	0.100
Down	B	3SB19 01-4EE	10 units	0.100	C	3SB39 40-4EE	10 units	0.100
Vor	B	3SB19 01-4AF	10 units	0.100	-	-	-	-
Forward	B	3SB19 01-4EF	10 units	0.100	C	3SB39 40-4EF	10 units	0.100
Zurück	B	3SB19 01-4AG	10 units	0.100	-	-	-	-
Reverse	B	3SB19 01-4EG	10 units	0.100	C	3SB39 40-4EG	10 units	0.100
Rechts	B	3SB19 01-4AH	10 units	0.100	C	3SB39 40-4AH	10 units	0.100
Right	C	3SB19 01-4EH	10 units	0.100	-	-	-	-
Links	B	3SB19 01-4AJ	10 units	0.100	C	3SB39 40-4AJ	10 units	0.100
Left	C	3SB19 01-4EJ	10 units	0.100	-	-	-	-
Auf	B	3SB19 01-4AD	10 units	0.100	B	3SB39 40-4AD	10 units	0.100
Open	B	3SB19 01-4EP	10 units	0.100	-	-	-	-
Zu	B	3SB19 01-4AL	10 units	0.100	B	3SB39 40-4AL	10 units	0.100
Close	B	3SB19 01-4EQ	10 units	0.100	-	-	-	-
Schnell	B	3SB19 01-4AM	10 units	0.100	B	3SB39 40-4AM	10 units	0.100
Fast	B	3SB19 01-4ER	10 units	0.100	-	-	-	-
Langsam	B	3SB19 01-4AN	10 units	0.100	B	3SB39 40-4AN	10 units	0.100
Slow	B	3SB19 01-4ES	10 units	0.100	-	-	-	-
Operation	B	3SB19 01-4AP	10 units	0.100	-	-	-	-
Running	B	3SB19 01-4EV	10 units	0.100	C	3SB39 40-4EV	10 units	0.100
Störung	B	3SB19 01-4AQ	10 units	0.100	C	3SB39 40-4AQ	10 units	0.100
Fault	B	3SB19 01-4EW	10 units	0.100	C	3SB39 40-4EW	10 units	0.100
Einrichten	B	3SB19 01-4AR	10 units	0.100	-	-	-	-
Reset	B	3SB19 01-4EM	10 units	0.100	C	3SB39 40-4EM	10 units	0.100
Test	B	3SB19 01-4EN	10 units	0.100	-	-	-	-
Start	B	3SB19 01-4EK	10 units	0.100	B	3SB39 40-4EK	10 units	0.100
Halt	B	3SB19 01-4AK	10 units	0.100	B	3SB39 40-4AK	10 units	0.100
Stop	B	3SB19 01-4EL	10 units	0.100	B	3SB39 40-4EL	10 units	0.100

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Accessories and spare parts Insert labels

Inscription symbols	Serial No. acc. to DIN Report 4	DT	Insert label for pushbutton (clear) and illuminated pushbutton (flat) round design	PS*	Weight per PU, approx.	DT	Insert label for pushbutton (clear) and illuminated pushbutton (flat) square design	PS*	Weight per PU, approx.	
										
			Order No.		kg		Order No.		kg	
Symbol for ON/OFF										
O (Off)		15	B	3SB19 01-4MB	10 units	0.100	B	3SB39 40-4MB	10 units	0.100
I (On)		16	B	3SB19 01-4MC	10 units	0.100	B	3SB39 40-4MC	10 units	0.100
II (On)		–	B	3SB19 01-4MD	10 units	0.100	B	3SB39 40-4MD	10 units	0.100
Equipment symbols										
Electric motor		42	B	3SB19 01-4PA	10 units	0.100	C	3SB39 40-4PA	10 units	0.100
Motion symbols										
Motion in direction of arrow		28	B	3SB19 01-4NA	10 units	0.100	B	3SB39 40-4NA	10 units	0.100
Increase, plus		40	B	3SB19 01-4NG	10 units	0.100	B	3SB39 40-4NG	10 units	0.100
Decrease, minus		41	B	3SB19 01-4MC	10 units	0.100	B	3SB39 40-4MC	10 units	0.100
Customized inscription										
Any inscription or symbol can be selected	–	B	3SB19 01-4AZ K0Y, K2Y, K3Y or K9Y	10 units		B	3SB39 40-4AZ K0Y, K2Y, K3Y or K9Y	10 units		

Options

Customized inscription

The labels can be inscribed with text and symbols not listed in the ordering data.

Append the following codes to the order number:

- Text in upper/lowercase: **K0Y**
- Text in uppercase: **K1Y**
- Text in lowercase: **K2Y**
- Symbols with number to DIN Report 4: **K3Y**
- Text or symbols according to order form supplement: **K9Y**

DIN Report 4 can be obtained from
Beuth Verlag GmbH, D-10772 Berlin

Ordering example

You want a label with image No. 1800 to DIN Report 4:

3SB19 01-4AZ
K3Y
Z = 1800

Notes on ordering

When ordering, specify the required inscription in plain text in addition to the order number and order code. In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.

By default, a letter height of 4 mm (for a single line of text) or 3 mm (for 2 or 3 lines of text) is used for text inscriptions.

The typeface used is Univers. Other letter heights and typefaces are possible, but must be specified when ordering.

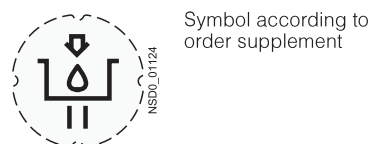
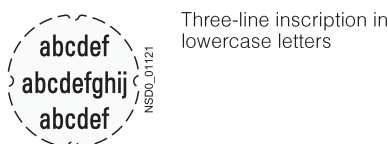
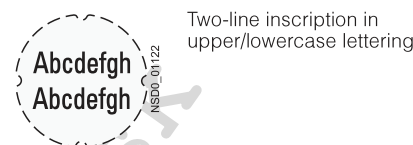
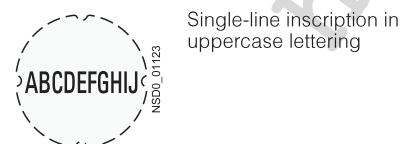
For round inscription labels, the maximum possible number of characters per line is:

- 10 characters for one line of text,
- 8 characters for 2 lines of text,
- 6 characters for 3 lines of text,
but 10 characters in the middle line.

On square labels, 10 characters are possible per line.

For special symbols (short code K9Y), a CAD drawing in DXF format should be submitted.

Examples for customized inscription



Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Accessories and spare parts

Name plates

Overview

The name plates consist of a black molded-plastic label holder and a labeling plate (black with white print). Adhesive or snap-on mounting. They are not suitable for EMERGENCY-STOP pushbuttons.

Note insert dimensions!

Inscription

The lettering has uppercase initial letters.

Self-adhesive labels

The labeling plates are self-adhesive.

There are 2 sizes available for the round and square designs:

- 30 mm x 45 mm label holders with 12.5 mm x 27 mm labeling plate.
- 30 mm x 60 mm label holders with 27 mm x 27 mm labeling plate.

Snap-on labels

The following variants are available for the round program:

- 29.8 mm x 51 mm label holders with 17.5 mm x 28 mm labeling plates (inscription area: 17.5 mm x 27 mm).

Selection and ordering data

Inscription	DT	Labeling plate self-adhesive 12.5 mm x 27 mm	PS*	Weight per PU, approx.	DT	Labeling plate self-adhesive 27 mm x 27 mm	PS*	Weight per PU, approx.
		Order No.		kg		Order No.		kg
blank	▶	3SB39 02-1AA	10 units	0.100	B	3SB39 03-1AA	10 units	0.100
Ein	B	3SB39 02-1AB	10 units	0.100	B	3SB39 03-1AB	10 units	0.100
On	B	3SB39 02-1EB	10 units	0.100	B	3SB39 03-1EB	10 units	0.100
Off	B	3SB39 02-1AC	10 units	0.100	B	3SB39 03-1AC	10 units	0.100
Off	B	3SB39 02-1EC	10 units	0.100	B	3SB39 03-1EC	10 units	0.100
Auf	B	3SB39 02-1AD	10 units	0.100	B	3SB39 03-1AD	10 units	0.100
Up	B	3SB39 02-1ED	10 units	0.100	-	-	-	-
Ab	B	3SB39 02-1AE	10 units	0.100	B	3SB39 03-1AE	10 units	0.100
Down	B	3SB39 02-1EE	10 units	0.100	-	-	-	-
Vor	B	3SB39 02-1AF	10 units	0.100	B	3SB39 03-1AF	10 units	0.100
Forward	B	3SB39 02-1EF	10 units	0.100	-	-	-	-
Zurück	B	3SB39 02-1AG	10 units	0.100	B	3SB39 03-1AG	10 units	0.100
Reverse	B	3SB39 02-1EG	10 units	0.100	-	-	-	-
Rechts	B	3SB39 02-1AH	10 units	0.100	B	3SB39 03-1AH	10 units	0.100
Right	B	3SB39 02-1EH	10 units	0.100	-	-	-	-
Links	B	3SB39 02-1AJ	10 units	0.100	B	3SB39 03-1AJ	10 units	0.100
Left	B	3SB39 02-1EJ	10 units	0.100	-	-	-	-
Auf	B	3SB39 02-1AD	10 units	0.100	B	3SB39 03-1AD	10 units	0.100
Open	B	3SB39 02-1EP	10 units	0.100	-	-	-	-
Zu	B	3SB39 02-1AL	10 units	0.100	B	3SB39 03-1AL	10 units	0.100
Close	B	3SB39 02-1EQ	10 units	0.100	-	-	-	-
Operation	B	3SB39 02-1AP	10 units	0.100	B	3SB39 03-1AP	10 units	0.100
Störung	B	3SB39 02-1AQ	10 units	0.100	B	3SB39 03-1AQ	10 units	0.100
Fault	B	3SB39 02-1EW	10 units	0.100	-	-	-	-
Test	B	3SB39 02-1EN	10 units	0.100	-	-	-	-
Start	B	3SB39 02-1EL	10 units	0.100	B	3SB39 03-1EL	10 units	0.100
Halt	B	3SB39 02-1AK	10 units	0.100	B	3SB39 03-1AK	10 units	0.100
Stop	B	3SB39 02-1EK	10 units	0.100	-	-	-	-
Stop Start	B	3SB39 02-1BC	10 units	0.100	B	3SB39 03-1BC	10 units	0.100
Hand Auto	C	3SB39 02-1BA	10 units	0.100	B	3SB39 03-1BA	10 units	0.100
Man Auto	B	3SB39 02-1EU	10 units	0.100	-	-	-	-
Symbols								
O	B	3SB39 02-1MB	10 units	0.100	-	-	-	-
I	B	3SB39 02-1MC	10 units	0.100	-	-	-	-
O I	B	3SB39 02-1MF	10 units	0.100	B	3SB39 03-1MF	10 units	0.100
1 2	B	3SB39 02-1ML	10 units	0.100	-	-	-	-
→	B	3SB39 02-1NA	10 units	0.100	B	3SB39 03-1NA	10 units	0.100
↑	B	3SB39 02-1NJ	10 units	0.100	-	-	-	-
Customized inscription								
Any inscription or symbol can be selected	B	3SB39 02-1XZ K0Y, K1Y, K2Y, K3Y or K9Y	10 units		B	3SB39 03-1XZ K0Y, K1Y, K2Y, K3Y or K9Y	10 units	
Label holder								
For round design	B	3SB39 22-0AV	10 units	0.200	B	3SB39 23-0AV	10 units	0.200
For square design	B	3SB39 42-0AX	5 units	0.200	B	3SB39 43-0AX	5 units	0.200
For potentiometer operating mechanism 3SB10 00-7CH07	B	3SB39 22-0AW	1 unit	0.004	-	-	-	-

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Accessories and spare parts Name plates

Inscription	DT	Labeling plate snap-on 17.5 mm x 28 mm Order No.	PS*	Weight per PU, approx. kg
blank	B	3SB39 05-1AA	10 units	0.100
Ein	B	3SB39 05-1AB	10 units	0.100
Off	B	3SB39 05-1AC	10 units	0.100
Auf	B	3SB39 05-1AD	10 units	0.100
Ab	B	3SB39 05-1AE	10 units	0.100
Zurück	B	3SB39 05-1AG	10 units	0.100
Auf	B	3SB39 05-1AD	10 units	0.100
Zu	B	3SB39 05-1AL	10 units	0.100
Operation	B	3SB39 05-1AP	10 units	0.100
Störung	B	3SB39 05-1AQ	10 units	0.100
Start	B	3SB39 05-1EL	10 units	0.100
Halt	B	3SB39 05-1AK	10 units	0.100
Stop	B	3SB39 05-1EK	10 units	0.100
Stop Start	B	3SB39 05-1BC	10 units	0.100
Hand Auto	B	3SB39 05-1BA	10 units	0.100
Symbols				
O I	B	3SB39 05-1MF	10 units	0.100
→	B	3SB39 05-1NA	10 units	0.100
↑	B	3SB39 05-1NJ	10 units	0.100
Customized inscription				
Any inscription or symbol can be selected	B	3SB39 05-1XZ K0Y, K1Y, K2Y, K3Y or K9Y	10 units	
Label holders				
For round design		3SB39 25-0AV	10 units	0.200

Options

Customized inscription

The labels can be inscribed with text and symbols not listed in the ordering data.

Append the following codes to the order number:

- Text in upper/lowercase: **K0Y**
- Text in uppercase: **K1Y**
- Text in lowercase: **K2Y**
- Symbols with number to DIN Report 4: **K3Y**
- Text or symbols according to order form supplement: **K9Y**

DIN Report 4 can be obtained from
Beuth Verlag GmbH, D-10772 Berlin

Ordering example

You want a label with image No. 1800 to DIN Report 4:

3SB39 02-1XZ
K3Y
Z = 1800

Examples for customized inscription



Notes on ordering

When ordering, specify the required inscription in plain text in addition to the order number and order code. In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.

The following letter heights are used as standard for text inscriptions:

- Label size 12.5 mm x 27 mm: 3 lines with font size of 4 mm (single-line), 3.5 mm (2 lines) or 2.5 mm (3 lines),
- Label size 27 mm x 27 mm: 5 lines with font size 4 mm (1 to 5 lines),
- Label size 17.5 mm x 28 mm: 3 lines with font size of 4 mm (1 to 2 lines) or 3 mm (3 lines).

Up to 10 characters per line are possible. The typeface used is Univers. Other letter heights and typefaces are possible, but must be specified when ordering.

For special symbols (short code K9Y), a CAD drawing in DXF format should be submitted.



Inscription with No. 35
to DIN Report 4



Symbol according to order supplement

Pushbuttons and Indicator Lights SIGNUM 22 mm Nominal Diameter

Accessories and part parts Buttons, lenses and keys

Selection and ordering data

Version	Color	DT	Order No.	PS*	Weight per PU, approx.
kg					
	Button, flat for round illuminated pushbuttons, plastic design	red	B 3SB39 30-0CA2	10 units	0.200
		yellow	B 3SB39 30-0CA3	10 units	0.200
		green	B 3SB39 30-0CA4	10 units	0.200
		blue	B 3SB39 30-0CA5	10 units	0.200
		white	B 3SB39 30-0CA6	10 units	0.200
		clear	B 3SB39 30-0CA7	10 units	0.200
	Button, flat for square illuminated pushbuttons and switches, plastic design	red	B 3SB39 50-0CA2	10 units	0.100
		yellow	B 3SB39 50-0CA3	10 units	0.100
		green	B 3SB39 50-0CA4	10 units	0.100
		blue	B 3SB39 50-0CA5	10 units	0.100
		white	B 3SB39 50-0CA6	10 units	0.100
		clear	B 3SB39 50-0CA7	10 units	0.100
	Button, flat for round illuminated pushbuttons and switches, metal design	black	B 3SB39 30-0EA1	10 units	0.200
		red	B 3SB39 30-0EA2	10 units	0.200
		yellow	B 3SB39 30-0EA3	10 units	0.200
		green	B 3SB39 30-0EA4	10 units	0.200
		blue	B 3SB39 30-0EA5	10 units	0.200
		white	B 3SB39 30-0EA6	10 units	0.200
	Button, flat for round illuminated pushbuttons and switches, metal design	clear	B 3SB39 30-0EA7	10 units	0.200
		red	B 3SB39 30-0GA2	10 units	0.200
		yellow	B 3SB39 30-0GA3	10 units	0.200
		green	B 3SB39 30-0GA4	10 units	0.200
		blue	B 3SB39 30-0GA5	10 units	0.200
		white	B 3SB39 30-0GA6	10 units	0.200
	Lens, smooth for round indicator lights, plastic and metal designs	clear	B 3SB39 30-0GA7	10 units	0.200
		red	B 3SB39 30-6BA2	10 units	0.020
		yellow	B 3SB39 30-6BA3	10 units	0.020
		green	B 3SB39 30-6BA4	10 units	0.020
		blue	B 3SB39 30-6BA5	10 units	0.020
		white	B 3SB39 30-6BA6	10 units	0.020
	Lens, with concentric rings for round indicator lights, plastic and metal version	clear	B 3SB39 30-6BA7	10 units	0.020
		red	B 3SB39 30-6CA2	10 units	0.020
		yellow	B 3SB39 30-6CA3	10 units	0.020
		green	B 3SB39 30-6CA4	10 units	0.020
		blue	B 3SB39 30-6CA5	10 units	0.020
		white	B 3SB39 30-6CA6	10 units	0.020
	Lens, smooth for square indicator lights, plastic design	clear	B 3SB39 30-6CA7	10 units	0.020
		red	B 3SB39 50-6AA2	10 units	0.002
		yellow	B 3SB39 50-6AA3	10 units	0.002
		green	B 3SB39 50-6AA4	10 units	0.002
		blue	B 3SB39 50-6AA5	10 units	0.015
		white	B 3SB39 50-6AA6	10 units	0.002
	Mounting tool for buttons and lenses, metal design	clear	B 3SB39 50-6AA7	10 units	0.002
			B 3SB39 21-0BC	1 unit	0.024

Version, key-operated switch	Color	DT	Order No.	PS*	Weight per PU, approx.
Manufacturer	Lock No.				
kg					

Key for actuating elements

	RONIS	SB 30	B	3SB39 10-4A	1 unit	0.012	
	BKS	S1	A	3SY1 066	1 unit	0.007	
	CES	LSG 1	B	3SB19 10-2F	1 unit	0.007	
		SSG 10	▶ 3SY1 054	1 unit	0.007		
		SSP 9	A	3SY1 052	1 unit	0.008	
	IKON	360012 K1	A	3SY1 053	1 unit	0.007	
	O.M.R.	73038	light blue	B	3SB19 10-2L	1 unit	0.011
		73037	red	B	3SB19 10-2M	1 unit	0.009
		73034	black	B	3SB19 10-2N	1 unit	0.011
73033		yellow	B	3SB19 10-2P	1 unit	0.011	

Footnotes for page 9/71

- Also for 230 V when used with a 3SB34 00-1C voltage reducer.
- Due to the inherent orange color of glow lamps and their lower luminance level compared to incandescent lamps, it is recommended that they should only be used with clear or red screw lenses and in areas where ambient light levels are not very high.
- For increased protection, the IP65 acoustic signaling device (complete device combinations) can be used.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Accessories and spare parts

Lamps and acoustic signal transformers

Selection and ordering data

Version	Lamp voltage	Color	DT	Order No.	PS*	Weight per PU, approx. kg
	V					
Lamps, BA 9s bases						
	Incandescent lamps 1.2 W , length up to 28 mm, max. bulb diameter 10 mm	AC/DC 24	clear	B	3SB19 02-0AY	10 units 0.003
	Incandescent lamp 2 W , length up to 28 mm, max. bulb diameter 10 mm	AC/DC 6	clear	A	3SX1 342	10 units 0.003
		AC/DC 12		A	3SX1 343	10 units 0.003
		AC/DC 24		A	3SX1 344	10 units 0.003
		AC/DC 30		B	3SB19 02-2AF	1 unit 0.003
		AC/DC 48		B	3SB19 02-1AP	10 units 0.003
		AC/DC 60		A	3SR9 424	10 units 0.003
	Incandescent lamp 2.6 W , length up to 28 mm, max. bulb diameter 10 mm	AC/DC 110 ... 130 ¹⁾	clear	▶	3SX1 731	10 units 0.003
	Multi-incandescent lamp endurance 25 000 h, high resistance to vibration, 1.2 W, max. operating current 50 mA	AC/DC 24	clear	B	3SB19 02-2BU	10 units 0.002
	LED lamp, super-bright max. length 28 mm, 10 mm bulb diameter, max. operating current 15 mA	AC/DC 24	red	▶	3SB39 01-1CA	10 units 0.002
			yellow	B	3SB39 01-1BA	10 units 0.002
			green	▶	3SB39 01-1DA	10 units 0.002
			blue	B	3SB39 01-1PA	10 units 0.002
			white	▶	3SB39 01-1QA	10 units 0.002
				B	3SB39 01-1QD	10 units 0.002
		AC 130	red	B	3SB39 01-1CD	10 units 0.002
			yellow	B	3SB39 01-1BD	10 units 0.002
			green	B	3SB39 01-1DD	10 units 0.002
			blue	B	3SB39 01-1PD	10 units 0.002
			white	B	3SB39 01-1QD	10 units 0.002
				B	3SB39 01-1QF	10 units 0.003
		AC 230	red	B	3SB39 01-1CF	10 units 0.003
			yellow	B	3SB39 01-1BF	10 units 0.003
			green	B	3SB39 01-1DF	10 units 0.003
			blue	B	3SB39 01-1PF	10 units 0.003
			white	B	3SB39 01-1QF	10 units 0.003
				B	3SB39 01-1QF	10 units 0.003
	LED lamp max. length 28 mm, 10 mm bulb diameter, max. operating current 15 mA	DC 22 ... 32	red	D	3SB19 02-4AJ	10 units 0.002
			yellow	D	3SB19 02-4BJ	10 units 0.002
			green	B	3SB19 02-4CJ	10 units 0.002
	LED lamp, flashing (1.4 Hz) , max. length 28 mm, bulb diameter 10 mm, operating current 24 ... 29 mA	DC 24	red	B	3SB19 02-4LC	10 units 0.002
			yellow	B	3SB19 02-4MC	10 units 0.002
			green	B	3SB19 02-4NC	10 units 0.002
	Glow lamp ²⁾ length 28 mm, bulb diameter 10 mm, operating current approx. 1.8 mA	AC 110	clear	A	3SX1 703	10 units 0.003
		AC 220	clear	A	3SX1 701	10 units 0.003
		AC 220	green	A	3SX1 702	10 units 0.003
	Lamp extractor for lamps with BA 9s bases			▶	3SB19 02-2AD	1 unit 0.006
	Lamp adapter for fitting a lamp with a wedge base socket into a BA 9s lampholder			B	3SB19 02-1AU	1 unit 0.002
Lamps, wedge base						
	Incandescent lamp wedge base W2 × 4.6 d, 1.0 W	AC/DC 6	clear	B	3SB29 08-1AA	10 units 0.100
		AC/DC 12		B	3SB29 08-1AB	10 units 0.100
		AC/DC 24		▶	3SB29 08-1AC	10 units 0.100
		AC/DC 30		B	3SB29 08-1AD	10 units 0.100
		AC/DC 48		B	3SB29 08-1AE	10 units 0.001
		AC/DC 60		B	3SB29 08-1AF	10 units 0.001
	LED lamp, super-bright wedge base W2 × 4.6 d, operating current 10 mA	DC 24	red yellow green white blue	B B B B B	3SB39 01-1SB 3SB39 01-1RB 3SB39 01-1TB 3SB39 01-1UB 3SB29 08-1BD	10 units 0.001 10 units 0.001 10 units 0.001 10 units 0.001 10 units 0.001
	Lamp extractor for lamps with sockets W2 × 4.6 d			▶	3SB29 08-2AB	1 unit 0.003
Acoustic signal transformers, BA 9s base						
	Acoustic signal transformer , operating voltage DC 24 – 28 V, operating current 25 mA, 0.6 W, min. sound pressure 80 dB/10 cm	Acoustic signal- ing device ³⁾		B	3SB19 02-2BN	1 unit 0.004

For footnotes, see opposite page.

* This quantity or a multiple thereof can be ordered

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Accessories and spare parts

Protective covers

Selection and ordering data

	Version	Application	Color	DT	Order No.	PS*	Weight per PU, approx. kg
Protective caps, Elastolan, IP67 degree of protection							
	Protective cap, clear, for round design¹⁾	Flat button (plastic)	transparent	B	3SB39 21-0AJ	1 unit	0.001
		Raised button (plastic), flat button (metal)	transparent	B	3SB39 21-0AM	1 unit	0.002
	Material PVC	Raised button (metal)	transparent	B	3SB19 02-2AN	1 unit	0.003
	Protective cap, clear, for square design¹⁾	Flat button (plastic)	transparent	B	3SB39 41-0AJ	1 unit	0.002
Protective caps, Silicone, IP67 degree of protection							
	Protective cap, clear, for round design¹⁾	Flat button (plastic)	transparent	B	3SB39 21-0AH	1 unit	0.002
		Raised button (plastic), flat button (metal)	transparent	B	3SB19 02-0AK	1 unit	0.002
		Raised button (metal)	transparent	B	3SB19 02-0AN	1 unit	0.003
	Protective cap, clear, for round design¹⁾	Mushroom push-pull button, Ø 40 mm	transparent	B	3SB19 02-2BH	1 unit	0.006
	Protective cap, clear, for square design¹⁾	Flat button (plastic)	transparent	B	3SB39 41-0AH	1 unit	0.002
Further protective caps							
	Sealable cap for round design	Flat button (plastic)	black	B	3SB19 02-0AL	1 unit	0.003
			transparent	B	3SB19 02-2AR	1 unit	0.011
	Dust cover for use in dusty environments	Key-operated pushbuttons BKS, CES, IKON, O.M.R.	transparent	B	3SB39 21-0BT	1 unit	0.003

1) Not to be used with label holder.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Accessories and spare parts

Protective covers

Version	Application	Color	DT	Order No.	PS*	Weight per PU, approx. kg
Protective collars						
	Protective collar for EMERGENCY-STOP¹⁾ for round design, for front panel fixing	EMERGENCY-STOP mushroom pushbutton without key-operated switch	yellow	▶ 3SB39 21-0AK	1 unit	0.044
		EMERGENCY-STOP mushroom pushbutton with key-operated switch	yellow	B 3SB39 21-0AX	1 unit	0.051
	Sun collar for round design, for front panel fixing	Illuminated pushbuttons	black	B 3SB39 21-0AS	1 unit	0.003
Blanking plugs for spare command positions						
	Blanking plug for plastic version, round		black	▶ 3SB39 21-0AA	10 units	0.012
	Blanking plug for plastic version, square		black	B 3SB39 41-0AA	1 unit	0.013
	Blanking plug for metal version, round		aluminized	B 3SB19 02-0AQ	10 units	0.080

1) The protective collar can only be used to protect against inadvertent actuating and must be fitted to allow unimpeded access to the EMERGENCY-STOP mushroom pushbutton.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Accessories and spare parts

Miscellaneous accessories

Selection and ordering data

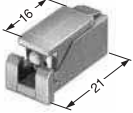
Version	Application	Color/ inscription	DT	Order No.	PS*	Weight per PU, approx. kg
Yellow name plates, as backing plate for EMERGENCY-STOP						
	Name plate, round, self-adhesive, external diameter 80 mm, 23 mm drilled hole (round design)	EMERGENCY- STOP mushroom pushbuttons	blank	B	3SB39 21-0AB	1 unit 0.002
			4-languages, G, En, It, Sp	X	3SB39 21-0BW	1 unit 0.001
			NOT-AUS	B	3SB39 21-0AC	1 unit 0.001
			EMERGENCY- STOP	B	3SB39 21-0AD	1 unit 0.002
			ARRET D'URGENCE	B	3SB39 21-0AG	1 unit 0.002
			EMERGENZA	B	3SB39 21-0AN	1 unit 0.002
	Name plate, round, self-adhesive, outer diameter 80 mm, cut-out 26 mm x 26 mm (square design)	EMERGENCY- STOP mushroom pushbuttons	blank	B	3SB39 41-0AB	1 unit 0.001
			NOT-AUS	B	3SB39 41-0AC	1 unit 0.001
			EMERGENCY- STOP	B	3SB39 41-0AD	1 unit 0.002
	Name plate, round, 1 mm thick, external diameter 75 mm, hole 22.5 mm (round design)	EMERGENCY- STOP mushroom pushbuttons	blank	B	3SB19 02-2BA	1 unit 0.006
			NOT-AUS	B	3SB19 02-2BB	1 unit 0.007
Holders and pressure plates						
	Holder for pushbuttons and switches for snapping on 3 switch blocks	Pushbuttons, push-pull but- tons, mushroom pushbuttons with front panel fixing	▶	3SB39 01-0AB	20 units 0.100	
	Holder for selector switch, key- operated switch and On-Off push- button with pressure plate for actuating the central switch block	Selector switch, key-operated switches and On-Off pushbut- tons with front plate mounting	▶	3SB39 01-0AC	10 units 0.200	
	Pressure plate for selector switches and key-operated switches for actuating the central switch block	Selector switches and key-oper- ated switches for use on PCB or with base mount- ing	B	3SB39 01-0AW	10 units 0.100	
Holders						
	Holder for plastic version, round		▶	3SB39 31-0AA	10 units 0.014	
	Holder for plastic version, square		B	3SB39 51-0AA	1 unit 0.013	
	Holder for metal version, round		▶	3SB39 31-0AC	10 units 0.044	
	Grounding screw for grounding metal actuators for fit- ting in front plates made of non-con- ducting materials		B	3SB39 21-0BD	50 units 0.100	

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Accessories and spare parts

Miscellaneous accessories

Version	Application	Color	DT	Order No.	PS*	Weight per PU, approx. kg
Tools						
	Blanking tool 26 mm x 26 mm, for square designs		B	3SB39 41-0AF	1 unit	0.817
	Hole drilling template for 30 mm x 30 mm grid, horizontal, for round and square designs		B	3SB19 02-2BG	1 unit	0.015
	Mounting tool for potentiometer operating mechanism and for pushbutton with extended stroke		A	3SX1 707	1 unit	0.018
Diverse accessories						
	Single frame for square design of the round version	black	B	3SB39 21-0AU	5 units	0.002
 	Adapter Adapter for 30.5 mm mounting holes, comprising a metal disk with an adhesive layer on one side	As thrust ring for a thin plastic front plate	B	3SB39 21-0AE	1 unit	0.008
	PCB holder for mounting the control devices on the PCB (screw supplied)	Switch blocks and lampholders for solder connection	B	3SB39 01-0AA	10 units	0.100
	Extension plunger for compensation of the distance between a pushbutton and the unlatching button of a thermal overload relay	Pushbuttons with extended stroke	A	3SX1 335	1 unit	0.004
	Equipment labels (Order No. and price per packing)		B	3TX4 210-0H	100 units	0.029

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Enclosures

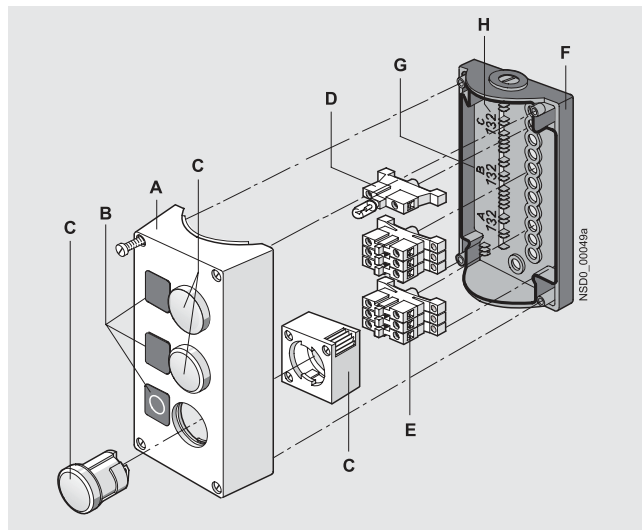
Area of application

Enclosed pushbuttons and indicator lights are used for hand operated control devices with separately allocated control. The devices are climate-proof.

Standards

IEC 60947-5-1 (VDE 0660 Part 200).

Design



- A Top part of enclosure
- B Labeling plates
- C Actuating element with holder
- D Function digit
- E Switch blocks, lampholders for base mounting
- F Bottom part of enclosure
- G Identification letters for the command points
- H Identification number

Enclosure

Molded-plastic and metal enclosures with 1, 2, 3, 4 or 6 command points are available. The mounting holes are located external to the terminal compartment.

Cable routing: on the top and bottom narrow ends of the enclosure for an M20/M25 metric cable gland.

Enclosure color:

- Cover RAL 7035 (light gray)
- For EMERGENCY-STOP RAL 1004 (yellow)
- Base RAL 9005 (black)

The molded-plastic enclosures comply with the "total insulation" specification.

Customer-specific enclosures

Enclosures with more than 6 command points can also be supplied with AS-Interface connection.

Actuators

Round actuators and lens assemblies for a mounting diameter of 22 mm can be used.

The actuators are fitted through the hole in the cover of the enclosure and are connected to the holder supplied with the actuator and secured in position.

Switch blocks and lampholders

Switch blocks and lampholders are snapped into the enclosure. For each command point, the following components can be fitted:

- 3 switch blocks or
- 2 switch blocks + 1 lampholder or lampholder with integrated voltage reducer.

The switch blocks have moving double-break contacts and therefore a high contact stability, i.e. they are also suitable for use in solid-state controls. Function numbering is shown on the switch block.

Single-pole switch blocks and lampholders for front plate mounting can also be used.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Enclosures with standard fittings

Overview

With 1 to 3 command points, operating voltage up to 400 V, vertical mounting type.

The actuator/indicator is fixed with an enclosure nut. If required it can be disassembled with a 27 mm socket wrench or with a 3SX17 07 ring nut wrench.

With base fixing switch blocks (snapped into the base of the enclosure).

Molded-plastic enclosures are equipped with actuators and indicators made of plastic, metal enclosures are equipped with actuators and indicators made of metal.

Color of cover of enclosure:

- Grey, RAL 7035, or
- Yellow, RAL 1004

Color of the base of the enclosure:

- Black, RAL 9005

Selection and ordering data

Equipment	Switch block function	Number of command points	DT	Molded-plastic enclosure	PS*	Weight per PU, approx.	DT	Metal enclosure	PS*	Weight per PU, approx.
				Order No.		kg		Order No.		kg

Enclosures with standard fittings

Cable entry top and bottom per 1 × M20



A = Pushbutton green, label "I"	1 NO	1	B	3SB38 01-0DA3	1 unit	0.209	B	3SB38 01-2DA3	1 unit	on req.
A = Pushbutton red, label "O"	1 NC	1	B	3SB38 01-0DB3	1 unit	0.209	B	3SB38 01-2DB3	1 unit	on req.
A = Pushbutton white, label "I"	1 NO	1	B	3SB38 01-0DD3	1 unit	0.205	B	3SB38 01-2DD3	1 unit	on req.
A = Pushbutton black, label "O"	1 NC	1	B	3SB38 01-0DE3	1 unit	0.205	B	3SB38 01-2DE3	1 unit	on req.
A = EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with positive latching function according to EN 418 with yellow top part, without protective collar	1 NC	1	B	3SB38 01-0DG3	1 unit	0.242	B	3SB38 01-2DG3	1 unit	on req.
A = EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with positive latching function according to EN 418 with yellow top part, with protective collar ¹⁾	1 NC	1	B	3SB38 01-0DF3	1 unit	0.270	B	3SB38 01-2DF3	1 unit	on req.
B = Green pushbutton, label "I", A = Red pushbutton, label "O"	1 NO, 1 NC	2	B	3SB38 02-0DA3	1 unit	0.261	B	3SB38 02-2DA3	1 unit	on req.
B = White pushbutton, label "I", A = Black pushbutton, label "O"	1 NO, 1 NC	2	B	3SB38 02-0DB3	1 unit	0.260	B	3SB38 02-2DB3	1 unit	on req.
C = Clear indicator light, label without inscription, B = Green pushbutton, label "I", A = White pushbutton, label "O"	BA 9s, 1 NO, 1 NC	3	B	3SB38 03-0DA3	1 unit	0.329	B	3SB38 03-2DA3	1 unit	on req.
C = Black pushbutton, label "I", B = Black pushbutton, label "I", A = Red pushbutton, label "O"	1 NO, 1 NO, 1 NC	3	C	3SB38 03-0DB3	1 unit	0.324	B	3SB38 03-2DB3	1 unit	on req.
C = Clear indicator light, label without inscription, B = White pushbutton, label "I", A = Black pushbutton, label "O"	BA 9s, 1 NO, 1 NC	3	C	3SB38 03-0DC3	1 unit	0.350	B	3SB38 03-2DC3	1 unit	on req.



¹⁾ The protective collar can only be used to protect against inadvertent actuating and must be fitted to allow unimpeded access to the EMERGENCY-STOP mushroom pushbutton.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Empty enclosures and individual elements

Selection and ordering data

Version	Number of command points	DT	Molded-plastic enclosure	PS*	Weight per PU, approx.	DT	Metal enclosure	PS*	Weight per PU, approx.
			Order No.		kg		Order No.		kg

Empty enclosures

Cable entry top and bottom
each 1 × M20 for 1 to 3 command points,
each 1 × M25 for 4 and 6 command points



for switch blocks, lampholders and accessories with snap-on base mounting,	1	B	3SB38 01-0AA3	1 unit	0.185	B	3SB38 01-2AA3	1 unit	on req.
also 1-pole front plate elements can be used (switching state remains on opening)	2	B	3SB38 02-0AA3	1 unit	0.214	B	3SB38 02-2AA3	1 unit	on req.
With gray top section	3	B	3SB38 03-0AA3	1 unit	0.258	B	3SB38 03-2AA3	1 unit	on req.
	4	B	3SB38 04-0AA3	1 unit	0.301	B	3SB38 04-2AA3	1 unit	on req.
	6	B	3SB38 06-0AA3	1 unit	0.415	B	3SB38 06-2AA3	1 unit	on req.

for EMERGENCY-STOP, for switch blocks, lampholders and accessories with snap-on base mounting, also 1-pole front plate elements can be used (switching state remains on opening)

with yellow top part, without protective collar	1	B	3SB38 01-0AB3	1 unit	0.185	B	3SB38 01-2AB3	1 unit	on req.
with yellow top part, with protective collar ¹⁾	1	B	3SB38 01-0AD3	1 unit	0.213	B	3SB38 01-2AD3	1 unit	on req.

- 1) The protective collar can only be used to protect against inadvertent actuating and must be fitted to allow unimpeded access to the EMERGENCY-STOP mushroom pushbutton.

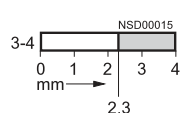
Version	Rated voltage/graphic symbol	Color/contact travel	DT	Order No.	PS*	Weight per PU, approx.
						kg

Switch blocks with screw connection, for base mounting



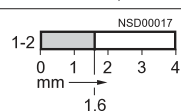
Switch block with one contact

1 NO



3SB34 20-0B	1 unit	0.012
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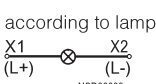
1 NC



3SB34 20-0C	1 unit	0.013
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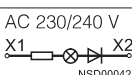
BA 9s lampholder

without lamp



3SB34 20-1A	1 unit	0.012
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with integrated voltage reducer and with 130 V lamp (3SX1 731)²⁾



clear

3SB34 20-1C	1 unit	0.016
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- 1) Positive opening according to IEC 60947-5-1, Appendix K.

- 2) Only use with this lamp.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

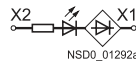
Empty enclosures and individual elements

Version	Rated voltage/ graphical symbols	Color/ contact travel	DT	Order No.	PS*	Weight per PU, approx. kg
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Switch blocks with screw connection, for base mounting

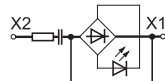
Lampholder with integrated LED

AC/DC 24 V	yellow red green blue white
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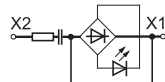
NSD0_01292a

AC 110 V	yellow red green blue white
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NSD0_01296a

AC 230 V	yellow red green blue white
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NSD0_01296a

Support terminal

black blue green/yellow

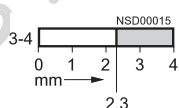
B	3SB34 20-1PA	1 unit	0.011
B	3SB34 20-1PB	1 unit	0.011
B	3SB34 20-1PC	1 unit	0.011
B	3SB34 20-1PD	1 unit	0.011
B	3SB34 20-1PE	1 unit	0.011
B	3SB34 20-1QA	1 unit	0.012
B	3SB34 20-1QB	1 unit	0.012
B	3SB34 20-1QC	1 unit	0.012
B	3SB34 20-1QD	1 unit	0.012
B	3SB34 20-1QE	1 unit	0.012
B	3SB34 20-1RA	1 unit	0.012
B	3SB34 20-1RB	1 unit	0.012
B	3SB34 20-1RC	1 unit	0.012
B	3SB34 20-1RD	1 unit	0.012
B	3SB34 20-1RE	1 unit	0.012
B	3SB39 01-0AG	1 unit	0.012
B	3SB39 01-0AH	1 unit	0.012
B	3SB39 01-0AJ	1 unit	0.012



Switch blocks with spring-loaded terminals, for base mounting

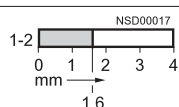
Switch block with one contact

1 NO



B	3SB34 23-0B	1 unit	0.012
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1 NC



B	3SB34 23-0C	1 unit	0.012
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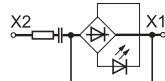
Lampholder with integrated LED

AC/DC 24 V	yellow red green blue white
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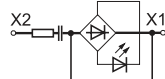
NSD0_01292a

AC 110 V	yellow green red blue white
----------	---



NSD0_01296a

AC 230 V	yellow blue green red white
----------	---



NSD0_01296a

Support terminal

black blue green/yellow

B	3SB34 23-1PA	1 unit	0.012
B	3SB34 23-1PB	1 unit	0.012
B	3SB34 23-1PC	1 unit	0.012
B	3SB34 23-1PD	1 unit	0.012
B	3SB34 23-1PE	1 unit	0.012
B	3SB34 23-1QA	1 unit	0.012
B	3SB34 23-1QC	1 unit	0.012
B	3SB34 23-1QB	1 unit	0.012
B	3SB34 23-1QD	1 unit	0.012
B	3SB34 23-1QE	1 unit	0.012
B	3SB34 23-1RA	1 unit	0.012
B	3SB34 23-1RD	1 unit	0.012
B	3SB34 23-1RC	1 unit	0.012
B	3SB34 23-1RB	1 unit	0.012
B	3SB34 23-1RE	1 unit	0.012
B	3SB34 23-2F	1 unit	0.012
B	3SB34 23-2G	1 unit	0.012
B	3SB34 23-2H	1 unit	0.012



Accessories

Pressure plate for selector switches and key-operated switches
for actuating the central switch block

B	3SB39 01-0AW	10 units	0.100
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1) Positive opening according to IEC 60947-5-1, Appendix K.

* This quantity or a multiple thereof can be ordered

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Enclosures with choice of fittings

Overview

With 1 to 6 command points,
operating voltage up to 400 V.

One command point comprises:

- 1 actuator or indicator
- Up to 3 switch blocks or lampholder,
- 1 labeling plate

The equipment for the command points must be selected from the tables. For ordering, the order supplement is required.

Molded-plastic enclosures are equipped with actuators and indicators made of plastic, metal enclosures are equipped with actuators and indicators made of metal.

For routing the cable through, one opening for M20 is provided at the top and bottom (for 1 or 4 command points) or for M25 (for 6 command points).

Pricing

The prices are made up of the enclosure prices and a price supplement based on the choice of command points.

Selection and ordering data

Version	Number of command points	DT	Molded-plastic enclosure	PS*	Weight per PU, approx.	DT	Metal enclosure	PS*	Weight per PU, approx.
			Order No.		kg		Order No.		kg
	With switch blocks and lamp fixtures, for base mounting	1	C	3SB38 01-0AZ	1 unit	C	3SB38 01-2AZ	1 unit	
		2	C	3SB38 02-0AZ	1 unit	C	3SB38 02-2AZ	1 unit	
		3	C	3SB38 03-0AZ	1 unit	C	3SB38 03-2AZ	1 unit	
		4	B	3SB38 04-0AZ	1 unit	C	3SB38 04-2AZ	1 unit	
		6	B	3SB38 06-0AZ	1 unit	C	3SB38 06-2AZ	1 unit	
	With single-pole switch blocks and lampholders, for front plate mounting	1	C	3SB38 01-1AZ	1 unit	C	3SB38 01-3AZ	1 unit	
		2	C	3SB38 02-1AZ	1 unit	C	3SB38 02-3AZ	1 unit	
		3	C	3SB38 03-1AZ	1 unit	C	3SB38 03-3AZ	1 unit	
		4	B	3SB38 04-1AZ	1 unit	C	3SB38 04-3AZ	1 unit	
		6	B	3SB38 06-1AZ	1 unit	C	3SB38 06-3AZ	1 unit	

3SB38 03-.AZ
(the components are only an example)

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Enclosures with choice of fittings

Options

Guide for completing the order form supplement

1. Enter the Item No.

2. Enter the quantity required

3. Enter the required Order No, e.g.:

- 3SB38 0.-0AZ for molded-plastic enclosure, base mounting switch blocks
- 3SB38 0.-1AZ for molded-plastic enclosure, switch blocks for front plate mounting
- 3SB38 0.-2AZ for metal enclosure, base mounting switch blocks
- 3SB38 0.-3AZ for metal enclosure, switch blocks for front plate mounting

Enter Order No. supplement for the 7th position (No. of command points).

4. Enter data in the diagram

4.1 Select actuating elements from the selection tables.

Enter the appropriate code. Mushroom pushbuttons of diameter 40 mm cannot be placed next to each other because of the close spacing.

The purpose of the identification letter (A to F) on the inside of the cover and base of the enclosure is to simplify ordering and complementing of enclosures.

Should a command point not be required, state the code for a blanking plug.

Please note IEC 60204-1 / EN 60204-1 (VDE 0113 Part 1):

- The OFF pushbutton should be black, the ON pushbutton white. Illuminated pushbuttons should not be used as OFF pushbuttons.
- A yellow name plate must be used in conjunction with a red EMERGENCY-STOP mushroom pushbutton. This is available at an additional charge (see 4.6).

4.2 Specify switch blocks, lampholders and voltage reducers for each command point

Select the codes for the desired equipment in accordance with the relevant table and enter them in the appropriate column. For the following devices, the quantity and type of required switch blocks, lampholders etc. must be entered:

- Pushbuttons,
- Actuators with 2 positions,
- Illuminated pushbuttons,
- Indicator lights.

Illuminated pushbuttons and indicator lights with a voltage reducer are supplied with an incandescent lamp.

If a lampholder without voltage reducer is to be supplied with a lamp, state the lamp voltage and, for 110 V, the lamp type (incandescent, glow lamp or LED lamp) under 4.3.

The relevant selection table contains all the possible combinations for 3-position actuators acc. to EN 50013. Enter the appropriate code. If a different arrangement of switch blocks is desired for a command point, this command point must be ordered without switch blocks. The switch blocks must be ordered separately and fitted into the enclosure.

The command points in the enclosure can be fitted with a maximum of 3 switch blocks or 2 switch blocks and 1 lampholder.

4.3 Notes on non-standard versions of equipment

Non-standard refers to equipment that differs from that listed in this catalog, e.g.

- Additional supply of lamps without voltage reducers: state lamp voltage and type of lamp (incandescent lamp, glow lamp or LED lamp).
- Insert labels for illuminated pushbuttons: Select and enter Order No.
- For lockable actuators: special locks (= different Lock No.).

When lampholders with LEDs are used, the required color of the LED can be specified here.

If the color is not specified, LEDs the same color as the actuating element will be used.

4.4 Inscription of the labeling plates

Simply enter the text, select labeling plates in accordance with the ordering data. If a blank plate is required, state "blank". The labeling plates are delivered loose.

If no labeling plate is to be fitted, enter "without plate".

Labeling plates with a special text can be supplied at an additional charge. Simply enter the text, and the labeling plates will then be delivered with the plates stuck to the cover of the enclosure.

The lettering has uppercase initial letters.

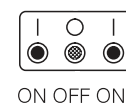
4.5 Tick the position of the labeling plate for horizontal or vertical mounting.

If no entry is made, the equipment will be supplied for vertical mounting.

Vertical mounting

ON		White or clear
ON		White or green
OFF		Black or red

Horizontal mounting



4.6 Special features (only when required)

Special features are versions of enclosures that differ from those listed in this catalog, e.g. if required, tick the yellow backing plate according to EN 60204 (VDE 0113 Part 1). Enclosures with only one command point will then be supplied with a yellow cover. Should the enclosure have more than one command point, a yellow name plate will be factory fitted at point "A". If the yellow name plate should be fixed to another command point, please state which one this is to be.

4.7 Type of actuating elements

Specify here whether an actuating element made of molded-plastic or metal should be fitted.

If this is not specified, molded-plastic actuators will be used with molded-plastic enclosures and metal actuators will be used with metal enclosures.

4.8 Connection system

Specify here whether contact blocks and lampholders should be used with spring-loaded terminals or screw connection.

If this is not specified, elements with screw connection will be used.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Enclosures with choice of fittings

Order form supplement

Recipient:

Siemens AG, A&D CD GKA LZA

Amberg, Fax: (+49 96 21) 80-31 02

Date

Purchaser's order reference/Order ref 1

Supplier's order reference

1. Item No.

2. Quantity

3. Order No. (complete according to selection table)

3SB38 . . - . . Z

4. Equipment

4.4

Inscription of the
labeling plates
(up to 11 characters
1 to 3 lines)

4.1

Actuating elements
(order codes)

4.2

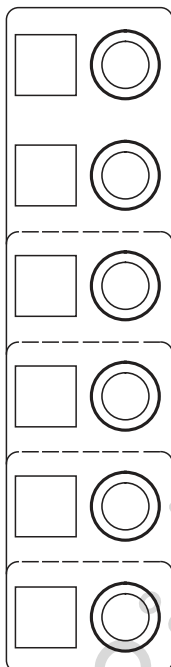
Switch blocks,
lampholders, voltage
reducers
(codes) *

4.3

Notes on special ver-
sions, e.g. LED, lamp
voltage,
insert labels,
laser inscription,
special lock

top or right

NSD00050



F

E

D

C

B

A



Bottom or left

A to F are identification letters on the inside of the covers and bases

4.5 Position of labeling plates for

☐ vertical mounting

☐ horizontal mounting

4.6 Special features, e.g.

☐ Yellow backing plate at command point "A" or
yellow cover for enclosed units with only one
command point

☐

4.7 Actuators

☐ Molded-plastic version

☐ Metal version

4.8 Connection system

☐ Screw connection

☐ Spring-loaded terminal

* If 3-position actuators are used, the numerical codes shown in this catalog
for the switch block arrangement should be stated
(e.g. 03 for 2 NO, 05 for 2 NC, etc.).

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Enclosures with choice of fittings

Select according to order form supplement, Section 4.1

Version	Codes for colors													
	black		red		yellow		green		blue		white		clear	
Actuating elements and signaling devices														
22.5 mm blank plug ¹⁾	BV	BK	–	–	–	–	–	–	–	–	–	–	–	–
Pushbutton with flat button	D	BK	D	RD	D	YE	D	GN	D	BU	D	WH	D	CL
Illuminated pushbutton with flat button	–	–	DL	RD	DL	YE	DL	GN	DL	BU	DL	WH	DL	CL
Pushbutton with raised button	DH	BK	DH	RD	DH	YE	–	–	DH	BU	–	–	–	–
Illuminated pushbutton with raised button	–	–	DHL	RD	DHL	YE	DHL	GN	DHL	BU	–	–	DHL	CL
Pushbutton with raised front ring	DHF	BK	DHF	RD	DHF	YE	DHF	GN	DHF	BU	DHF	WH	–	–
Pushbutton with raised front ring, castellated ¹⁾	DFZ	BK	DFZ	RD	DFZ	YE	DFZ	GN	DFZ	BU	DFZ	WH	–	–
Pushbutton with flat button	DS	BK	DS	RD	DS	YE	DS	GN	DS	BU	DS	WH	–	–
Illuminated pushbutton with flat button	–	–	DLS	RD	DLS	YE	DLS	GN	DLS	BU	DLS	WH	DLS	CL
Mushroom pushbutton, Ø 30 mm	P30	BK	P30	RD	P30	YE	P30	GN	–	–	–	–	–	–
Illuminated mushroom pushbutton, Ø 30 mm	–	–	–	–	PL30	YE	PL30	GN	–	–	PL30	WH	–	–
Mushroom pushbutton, Ø 40 mm	P	BK	P	RD	P	YE	P	GN	–	–	–	–	–	–
Illuminated mushroom pushbutton, Ø 40 mm	–	–	PL	RD	PL	YE	PL	GN	–	–	–	–	–	–
Pushbutton with raised button, latching by pressing and turning to the right, rotate to unlatch to the left ¹⁾	DHR	BK	DHR	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 32 mm, with positive latching rotate to unlatch to the left	–	–	PRÜ 32	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching rotate to unlatch to the left	–	–	PRÜ 40	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching pull to unlatch	–	–	PRZ 40	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching with RONIS key-operated switch, lock No. SB30	–	–	PRS 30	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching with CES key-operated switch, lock No. SSG10	–	–	PRS 10	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching with BKS key-operated switch, lock No. S1	–	–	PRS S1	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching with O.M.R. key-operated switch, lock No. 73037	–	–	PRS 73	RD	–	–	–	–	–	–	–	–	–	–
Acoustic signaling device, IP40 ¹⁾	AMK	BK	–	–	–	–	–	–	–	–	–	–	–	–
Indicator lights	–	–	L	RD	L	YE	L	GN	L	BU	L	WH	L	CL
Push-pull-button with snap action, Ø 30 mm	DZ 30	BK	DZ30	RD	–	–	–	–	–	–	–	–	–	–
Push-pull-button, can be illuminated, with snap action, Ø 30 mm	–	–	DZB30	RD	DZB30	YE	DZB30	GN	DZB30	BU	–	–	DZB30	CL
Push-pull button with snap action, Ø 40 mm	DZ	BK	DZ	RD	–	–	–	–	–	–	–	–	–	–
Push-pull button, can be illuminated, with snap action, Ø 40 mm	–	–	DZB	RD	DZB	YE	DZB	GN	DZB	BU	–	–	DZB	CL

1) Only in molded-plastic version.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Enclosures with choice of fittings

Version	Codes for colors						
	black	red	yellow	green	blue	white	clear

Selector switch with 2 switch positions

Switching sequence O-I latching

non-illuminated	K1	BK	K1	RD	–	K1	GN	–	K1	WH	–
illuminated	–		BK1	RD	BK1	YE	BK1	GN	BK1	BU	–
											CL

Switching sequence O-I momentary contact to the right (with return from the right)

non-illuminated	K2	BK	K2	RD	–	K2	GN	–	K2	WH	–
illuminated	–		BK2	RD	BK2	YE	BK2	GN	BK2	BU	–
											CL

Selector switch with 3 switch positions

Switching sequence I-O-II latching

non-illuminated	K4	BK	K4	RD	–	K4	GN	–	K4	WH	–
illuminated	–		BK4	RD	BK4	YE	BK4	GN	BK4	BU	–
											CL

Switching sequence I-O-II momentary contact (with reset from the right and left)

non-illuminated	K5	BK	K5	RD	–	K5	GN	–	K5	WH	–
illuminated	–		BK5	RD	BK5	YE	BK5	GN	BK5	BU	–
											CL

Switching sequence I-O-II latching to the right, momentary contact to the left (with return from the left)

non-illuminated	K6	BK	K6	RD	–	K6	GN	–	K6	WH	–
-----------------	----	----	----	----	---	----	----	---	----	----	---

Switching sequence I-O-II latching to the left, momentary contact to the right (with return from the right)

non-illuminated	K7	BK	K7	RD	–	K7	GN	–	K7	WH	–
-----------------	----	----	----	----	---	----	----	---	----	----	---

Version	Code						
	Key removable in position						
	O	I	II	O and I	O and II	I and II	I, O and II

Key-operated switches with 2 switch positions

Switching sequence O-I latching

RONIS type, lock No. SB30	RSB	1A	RSB	1E	–	RSB	1AE	–	–	–
CES type, lock No. SSG 10	CES	1A	CES	1E	–	CES	1AE	–	–	–
lock No. LSG 1	CESL	1A	–	–	–	CESL	1AE	–	–	–
IKON type, lock No. 360012 K1	Z-J	1A	–	–	–	Z-J	1AE	–	–	–
BKS type, lock No. S1	BKS	1A	BKS	1E	–	BKS	1AE	–	–	–
lock No. E1 (for VW)	BKS A	1A	–	–	–	BKS A	1AE	–	–	–
lock No. E2 (for VW)	BKS E	1A	–	–	–	BKS E	1AE	–	–	–
lock No. E7 (for VW)	BKS C	1A	–	–	–	BKS C	1AE	–	–	–
lock No. E9 for VW)	BKS B	1A	–	–	–	BKS B	1AE	–	–	–
O.M.R. type, black, lock No. 73034	OMR BK	1A	OMR BK	1E	–	OMR BK	1AE	–	–	–

Switching sequence O-I momentary contact to the right (with return from the right)

RONIS type, lock No. SB30	RSB	2A	–	–	–	–	–	–	–	–
CES type, lock No. SSG 10	CES	2A	–	–	–	–	–	–	–	–
lock No. LSG 1	CESL	2A	–	–	–	–	–	–	–	–
IKON type, lock No. 360012 K1	Z-J	2A	–	–	–	–	–	–	–	–
BKS type, lock No. S1	BKS	2A	–	–	–	–	–	–	–	–
O.M.R. type, black, lock No. 73034	OMR BK	2A	–	–	–	–	–	–	–	–

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Enclosures with choice of fittings

Version	Code						
	Key removable in position						
	O	I	II	O and I	O and II	I and II	I, O and II

Key-operated switches with 3 switch positions

Switching sequence I-O-II latching

RONIS type, lock No. SB30	RSB	4A	RSB	4E	RSB	4D	–	–	RSB	4ED	RSB	4EAD
CES type, lock No. SSG 10	CES	4A	CES	4E	CES	4D	–	–	CES	4ED	CES	4EAD
IKON type, lock No. 360012 K1	Z-J	4A	Z-J	4E	Z-J	4D	–	–	Z-J	4ED	Z-J	4EAD
BKS type, lock No. S1	BKS	4A	BKS	4E	BKS	4D	–	–	BKS	4ED	BKS	4EAD
O.M.R. type, black, lock No. 73034	OMR BK	4A	–	–	–	–	–	–	OMR BK4ED	–	OMR BK	4EAD

Switching sequence I-O-II momentary contact (with return from the right and left)

RONIS type, lock No. SB30	RSB5A	–	–	–	–	–	–	–	–	–	–	–
CES type, lock No. SSG 10	CES5A	–	–	–	–	–	–	–	–	–	–	–
IKON type, lock No. 360012 K1	Z-J5A	–	–	–	–	–	–	–	–	–	–	–
BKS type, lock No. S1	BKS5A	–	–	–	–	–	–	–	–	–	–	–
O.M.R. type, black, lock No. 73034	OMR BK5A	–	–	–	–	–	–	–	–	–	–	–

Switching sequence I-O-II latching to the right, momentary contact to the left (with return from the left)

RONIS type, lock No. SB30	RSB	6A	–	RSB	6D	–	RSB	6AD	–	–	–	–
CES type, lock No. SSG 10	CES	6A	–	CES	6D	–	CES	6AD	–	–	–	–
IKON type, lock No. 360012 K1	Z-J	6A	–	Z-J	6D	–	Z-J	6AD	–	–	–	–
BKS type, lock No. S1	BKS	6A	–	BKS	6D	–	BKS	6AD	–	–	–	–
O.M.R. type, black, lock No. 73034	OMR BK	6A	–	OMR BK	6D	–	OMR BK	6AD	–	–	–	–

Switching sequence I-O-II latching to the left, momentary contact to the right (with return from the right)

RONIS type, lock No. SB30	RSB	7A	RSB	7E	–	RSB	7AE	–	–	–	–	–
CES type, lock No. SSG 10	CES	7A	CES	7E	–	CES	7AE	–	–	–	–	–
IKON type, lock No. 360012 K1	Z-J	7A	Z-J	7E	–	Z-J	7AE	–	–	–	–	–
BKS type, lock No. S1	BKS	7A	BKS	7E	–	BKS	7AE	–	–	–	–	–
O.M.R. type, black, lock No. 73034	OMR BK	7A	OMR BK	7E	–	–	–	–	–	–	–	–

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Enclosures with choice of fittings

Select according to order form supplement, Section 4.2

	Version		Order code
Switch blocks, lampholders and voltage reducers			
Codes for lampholders and actuators with 2 switch positions	Switch block	NO NC	NO NC
	BA 9s lampholder without lamp ¹⁾		BA 9s
	BA 9s lampholder with lamp, Enter Order No. under 4.3 (Notes) ^{1) 2)}		BA 9s L
	BA 9s lampholder + voltage reducer + 130 V lamp ¹⁾	AC 230 V	BA 9s VL
	BA 9s lampholder + acoustic signal transformer ¹⁾		BA 9s S
	Lampholder with integrated LED	AC/DC 24 V AC 110 V AC 230 V	LED24 LED110 LED230
	Holder for 3 snap-on switch blocks with front plate fixing		
	Holder for selector switch and key-operated switches with pressure plates, for actuating the central switch block, with front plate mounting		
	Pressure plate for selector switch and key-operated switch for operating the middle switch block, with base mounting		
	Support terminals	black blue green/yellow	Sk BK Sk BU Sk GNYE

	Number and type of switch blocks	in position I		in position II		Order code
		actuated	contact identification	actuated	contact identification	
Code for actuators with 3 switch positions	2 NO	1 NO	13/14	1 NO	23/24	03
	1 NO+1 NC	1 NO	13/14	1 NC	21/22	04
	2 NC	1 NC	11/12	1 NC	21/22	05
	3 NO	2 NO	13/14 and 33/34	1 NO	23/24	07
		1 NO	13/14	2 NO	23/24 and 33/34	08
		2 NO	13/14 and 33/34 ³⁾	2 NO	23/24 and 33/34 ³⁾	06
	2 NO+1 NC	2 NO	13/14 and 33/34	1 NC	21/22	11
		1 NO	13/14	1 NC+1 NO	21/22 and 33/34	12
		2 NO	13/14 and 33/34 ³⁾	1 NC+1 NO	21/22 and 33/34 ³⁾	10
		1 NO+1 NC	13/14 and 31/32	1 NC+1 NC	23/24 and 31/32	19
	1 NO+2 NC	1 NO+1 NC	13/14 and 31/32	1 NC	21/22	14
		1 NO	13/14	2 NC	21/22 and 31/32	15
		1 NO+1 NC	13/14 and 31/32 ³⁾	2 NC	21/22 and 31/32 ³⁾	13
	3 NC	2 NC	11/12 and 31/32	1 NC	21/22	17
		1 NC	11/12	2 NC	21/22 and 31/32	18
		2 NC	11/12 and 31/32 ³⁾	2 NC	21/22 and 31/32 ³⁾	16

Select according to order form supplement, Section 4.4

	Inscription	
Labeling plates	With inscription	Laser-printed inscription
	Without inscription	

Special designs

	Version	
Pushbutton in enclosure	Fitting a yellow backing plate	Without inscription
		With recess for labeling plate
	Enclosure with yellow cover ⁴⁾	

1) Only for lampholders with screw connection.

2) For lamps, see page 9/71.

3) This switch block is actuated in positions I and II.

4) Only possible for enclosures with 1 command point.

Pushbuttons and Indicator Lights SIGNUM 22 mm Nominal Diameter

Labeling plates for enclosures

Overview

The labeling plates (black with white inscription) for enclosures have an adhesive layer on the back. The size of the labels is 22 mm x 22 mm.

Ein

Inscription

The lettering has uppercase initial letters.

Selection and ordering data

Inscription	DT	Order No.	PS*	Weight per PU, approx. kg
Blank				
Without inscription		3SB39 06-1AA	10 units	0.100
With inscription				
Ein	B	3SB39 06-1AB	10 units	0.001
On	B	3SB39 06-1EB	10 units	0.001
Off	B	3SB39 06-1AC	10 units	0.001
Off	B	3SB39 06-1EC	10 units	0.001
Auf	B	3SB39 06-1AD	10 units	0.001
Up	B	3SB39 06-1ED	10 units	0.001
Ab	B	3SB39 06-1AE	10 units	0.001
Down	B	3SB39 06-1EE	10 units	0.001
Vor	B	3SB39 06-1AF	10 units	0.001
Forward	B	3SB39 06-1EF	10 units	0.001
Zurück	B	3SB39 06-1AG	10 units	0.001
Reverse	B	3SB39 06-1EG	10 units	0.001
Rechts	B	3SB39 06-1AH	10 units	0.001
Right	B	3SB39 06-1EH	10 units	0.001
Links	B	3SB39 06-1AJ	10 units	0.001
Left	B	3SB39 06-1EJ	10 units	0.001
Auf	B	3BB3906-1AD	10 units	0.001
Open	B	3SB39 06-1EP	10 units	0.001
Zu	B	3SB39 06-1AL	10 units	0.001
Close	B	3SB39 06-1EQ	10 units	0.001
Schnell	B	3SB39 06 -1AM	10 units	0.001
Fast	B	3SB39 06 -1ER	10 units	0.001
Langsam	B	3SB39 06 -1AN	10 units	0.001
Slow	B	3SB39 06 -1ES	10 units	0.001
Operation	B	3SB39 06 -1AP	10 units	0.001
Running	B	3SB39 06 -1EV	10 units	0.001
Störung	B	3SB39 06 -1AQ	10 units	0.001
Fault	B	3SB39 06 -1EW	10 units	0.001
Einrichten	B	3SB39 06 -1AR	10 units	0.001
Reset	B	3SB39 06 -1EM	10 units	0.001
Test	B	3SB39 06 -1EN	10 units	0.001
Start	B	3SB39 06 -1EL	10 units	0.001
Halt	B	3SB39 06-1AK	10 units	0.001
Stop	B	3SB39 06-1EK	10 units	0.001
NOT-AUS	B	3SB39 06 -1AS	10 units	0.001

Inscription	DT	Order No.	PS*	Weight per PU, approx. kg
Equipment				
Fan	B	3SB39 06 -1CA	10 units	0.001
Pump	B	3SB39 06 -1CB	10 units	0.001
Cooling	B	3SB39 06 -1CC	10 units	0.001
Heating	B	3SB39 06 -1CD	10 units	0.001
Lighting	B	3SB39 06 -1CE	10 units	0.001
Filter	B	3SB39 06 -1CF	10 units	0.001
Motor	C	3SB39 06 -1CG	10 units	0.001
Compressor	C	3SB39 06 -1CH	10 units	0.001
Symbol for ON/OFF				
O	B	3SB39 06-1MB	10 units	0.001
I	B	3SB39 06-1MC	10 units	0.001
II	B	3SB39 06-1MD	10 units	0.001
III	B	3SB39 06-1ME	10 units	0.001
O I (horizontal)	B	3SB39 06-1MF	10 units	0.001
I O II (horizontal)	B	3SB39 06-1MG	10 units	0.001
I O (vertical)	B	3SB39 06-1MH	10 units	0.001
II O I (vertical)	B	3SB39 06-1MW	10 units	0.001
Motion symbols				
→	B	3SB39 06-1NA	10 units	0.001
Customized inscription				
Any inscription or symbol can be selected	B	3SB39 06-0XZ K0Y, K1Y, K2Y KY3 or K9Y	10 units	0.001

Options

Customized inscription

The labels can be inscribed with text and symbols not listed in the ordering data.

Append the following codes to the order number:

- Text in upper/lowercase: **K0Y**
- Text in uppercase: **K1Y**
- Text in lowercase: **K2Y**
- Symbols with number to DIN Report 4: **K3Y**
- Text or symbols according to order form supplement: **K9Y**

DIN Report 4 can be obtained from
Beuth Verlag GmbH, D-10772 Berlin

Ordering example

You want a label with image No. 267 to DIN Report 4:

3SB39 06-0XZ
K3Y
Z = 267

Notes on ordering

When ordering, specify the required inscription in plain text in addition to the order number and order code. In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.

3 lines with 11 letters each are possible, height of letters 4 mm (1 to 3 lines)

For special symbols (short code K9Y), a CAD drawing in DXF format should be submitted.

Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Accessories for enclosures

Selection and ordering data

Device type	Version	Color/ inscription	DT	Order No.	PS*	Weight per PU, approx. kg
Blanking plugs						
	Blanking plug for round design, plastic	black	▶	3SB39 21-0AA	10 units	0.012
Holders and pressure plates						
	Holder for pushbuttons and switches for snapping on 3 switch blocks, for front plate mounting		▶	3SB39 01-0AB	20 units	0.100
	Holder for selector switch and key-operated switch with pressure plate for actuating the central switch block, for front plate mounting		▶	3SB39 01-0AC	10 units	0.200
	Pressure plate for selector switch and key-operated switch for actuating the central switch block, for base mounting		B	3SB39 01-0AW	10 units	0.100
Accessories for enclosure						
	Yellow name plate as backing plate for EMERGENCY-STOP, self-adhesive	Without inscription	B	3SB19 02-1AQ	1 unit	0.001
		with inscription "EMERGENCY-STOP"	B	3SB19 02-2AQ	1 unit	0.001
		with recess for labeling plate	B	3SB39 21-0BV	1 unit	0.001
	M20 cable gland ¹⁾		B	3SB39 01-0CK	1 unit	0.011
	M25 cable gland ¹⁾		B	3SB39 01-0CM	1 unit	0.014
	M20 hexagonal nut for cable glands ¹⁾		B	3SB39 01-0CL	10 units	0.100
	M25 hexagonal nut for cable glands ¹⁾		B	3SB39 01-0CN	10 units	0.100

1) For molded-plastic enclosures, a nut and cable gland are required, for metal enclosures only the cable gland is required.

Pushbuttons and Indicator Lights

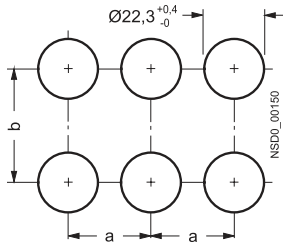
SIGNUM 22 mm Nominal Diameter

Project planning aids

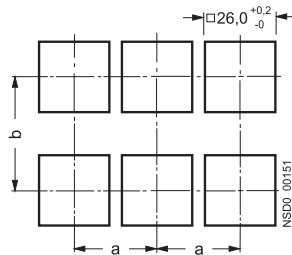
Dimension drawings

Mounting dimensions

Round design



Square design



Minimum clearance

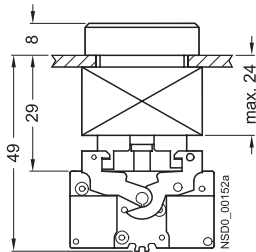
	a	b
Switch blocks (1 contact) and lampholder		
• for front plate mounting, with screw terminals	30 ¹⁾	45
• for front plate mounting, with spring-loaded terminals	30 ¹⁾	30 ¹⁾
• for use on PCB, with solder pins	30 ¹⁾	30 ¹⁾
Switch blocks with 2 contacts		
• for front plate mounting	30 ¹⁾	50
When using holders for labeling plates		
• 12.5 mm x 27 mm	30 ¹⁾	45 ²⁾
• 27.0 mm x 27 mm	30 ¹⁾	60

1) For mushroom pushbutton, EMERGENCY-STOP and push-pull button:
Note mushroom diameter d = 40 mm or 60 mm.

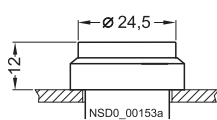
2) 60 mm with switch blocks having two contacts.

Molded-plastic version, round

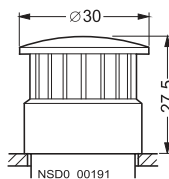
Pushbutton or illuminated pushbutton
with flat pushbutton
and single-pole switch block
(and lampholder)



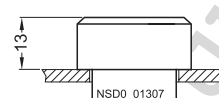
Pushbutton or illuminated pushbutton
with raised button



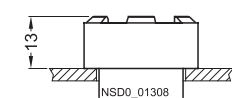
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button,
Ø 30 mm



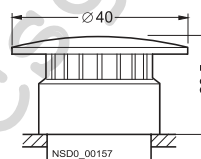
Pushbutton
with raised front ring



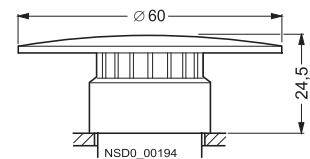
Pushbutton
with raised front ring castellated



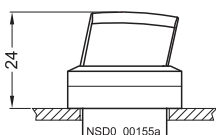
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button,
Ø 40 mm



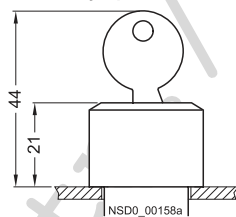
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button,
Ø 60 mm



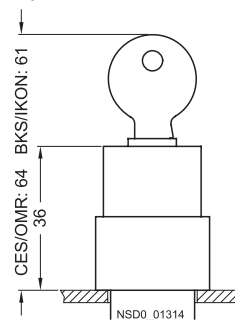
Selector switch or illuminated selector switch



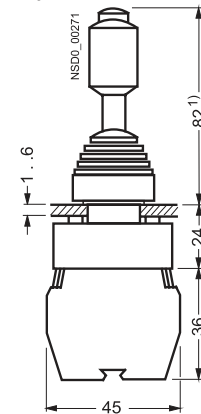
RONIS key-operated switch



BKS, CES, IKON, O.M.R. key-operated switches

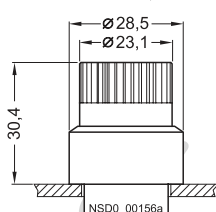


Joystick switch

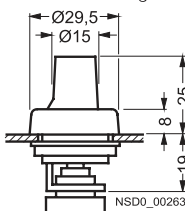


1) 82 with mechanical interlock,
77 without mechanical interlock

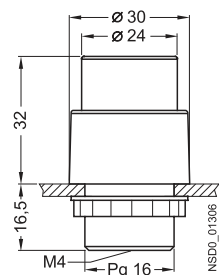
Pushbutton
with raised button, latchable



Operating mechanism for potentiometer
with shaft Ø 6 mm,
30 ... 32 mm long



Pushbutton with extended stroke

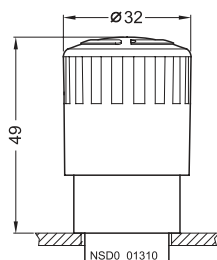


Pushbuttons and Indicator Lights

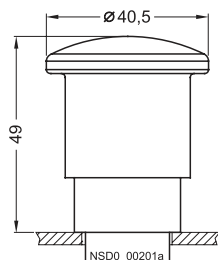
SIGNUM 22 mm Nominal Diameter

Project planning aids

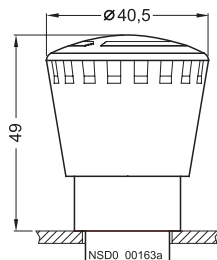
EMERGENCY-STOP mushroom pushbutton,
Ø 32 mm, pull to unlatch



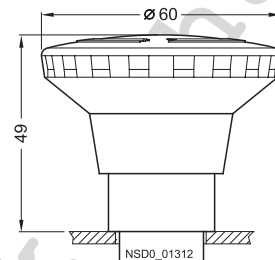
EMERGENCY-STOP mushroom pushbutton,
Ø 40 mm, pull to unlatch



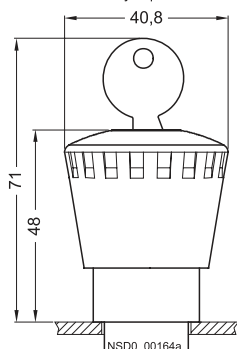
EMERGENCY-STOP mushroom pushbutton,
Ø 40 mm, pull to unlatch



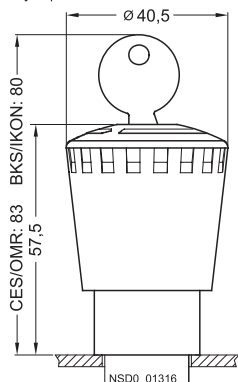
EMERGENCY-STOP mushroom pushbutton,
Ø 60 mm, rotate to unlatch



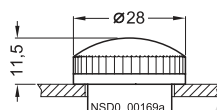
EMERGENCY-STOP mushroom pushbutton
with RONIS key-operated switch



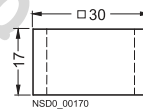
EMERGENCY-STOP mushroom pushbutton
with BKS, CES, IKON, O.M.R.
key-operated switch



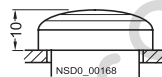
Indicator light



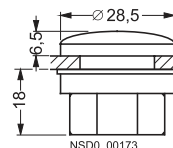
Holder



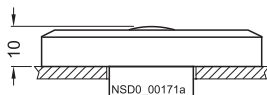
Audible signal device



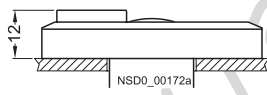
Blanking plug



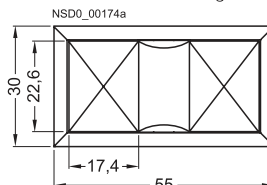
On-Off pushbutton
with flat buttons



On-Off pushbutton
with raised buttons

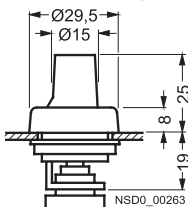


On-Off pushbutton
with or without indicator light

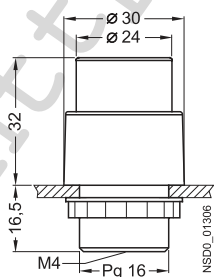


Top view

Operating mechanism for potentiometer
with shaft Ø 6 mm,
30 ... 32 mm long



Pushbutton with extended stroke

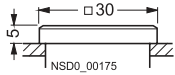


Pushbuttons and Indicator Lights SIGNUM 22 mm Nominal Diameter

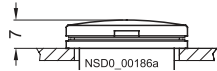
Project planning aids

Plastic version, square

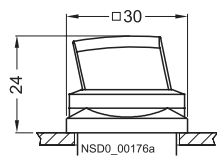
Pushbutton or illuminated pushbutton with flat pushbutton



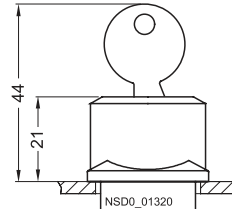
Indicator light



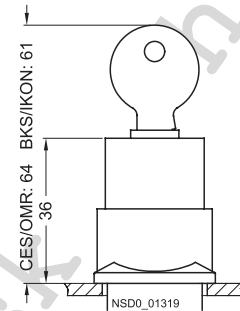
Selector switch or illuminated selector switch



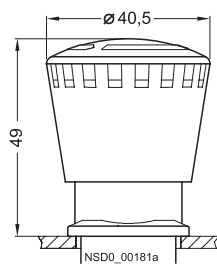
RONIS key-operated switch



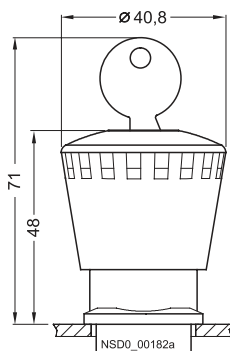
BKS, CES, IKON, O.M.R. key-operated switch



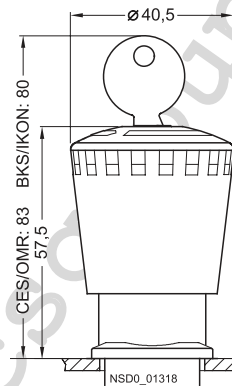
EMERGENCY-STOP mushroom pushbutton with safety lock



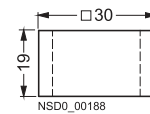
EMERGENCY-STOP mushroom pushbutton with RONIS key-operated switch



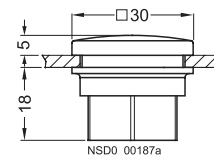
EMERGENCY-STOP mushroom pushbutton with BKS, CES, IKON, O.M.R. key-operated switch



Holder



Blanking plug



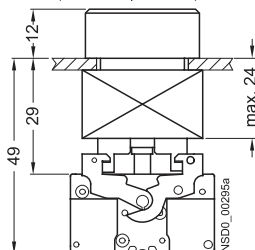
Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

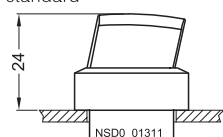
Project planning aids

Metal version, round

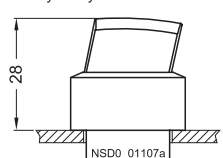
Pushbutton or illuminated pushbutton
with flat button and single-pole switch
block (and lampholder)



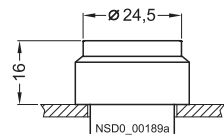
Selector switch or illuminated selector switch,
standard



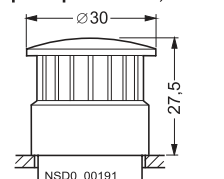
Selector switch or illuminated selector switch,
heavy duty



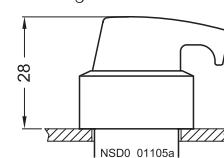
Pushbutton or illuminated pushbutton
with raised button



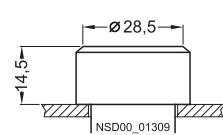
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button, Ø 30 mm



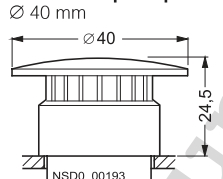
Selector switch or illuminated selector switch
with long handle



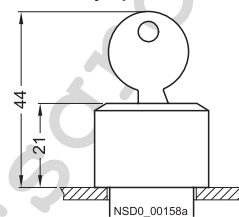
Pushbutton or illuminated pushbutton, latching,
with flat button



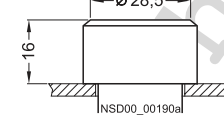
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button, Ø 40 mm



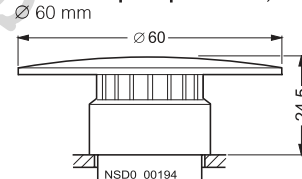
RONIS key-operated switch



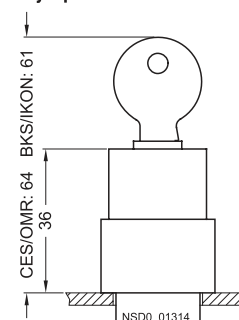
Pushbutton
with raised front ring



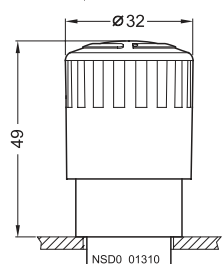
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button, Ø 60 mm



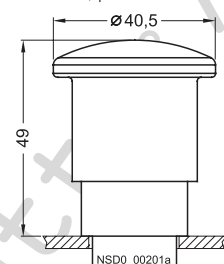
BKS, CES, IKON, O.M.R. key-operated switches



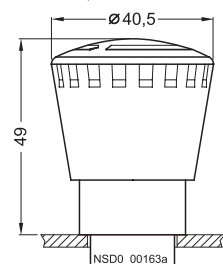
EMERGENCY-STOP mushroom pushbutton,
Ø 32 mm, rotate to unlatch



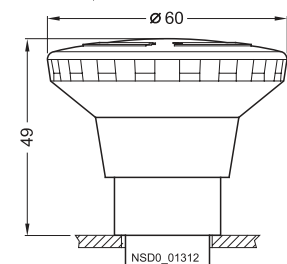
EMERGENCY-STOP mushroom pushbutton,
Ø 40 mm, rotate to unlatch



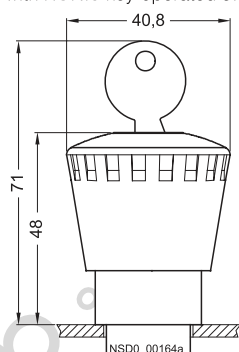
EMERGENCY-STOP mushroom pushbutton,
Ø 40 mm, rotate to unlatch



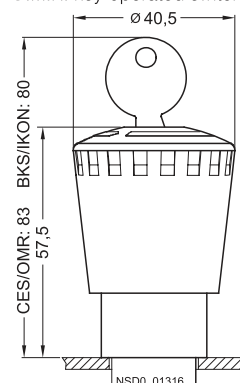
EMERGENCY-STOP mushroom pushbutton,
Ø 60 mm, rotate to unlatch



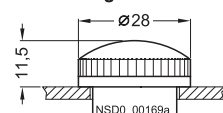
EMERGENCY-STOP mushroom pushbutton
with RONIS key-operated switch



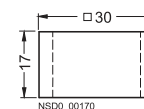
EMERGENCY-STOP mushroom pushbutton
with BKS, CES, IKON, O.M.R. key-operated switch



Indicator light



Holder



Pushbuttons and Indicator Lights

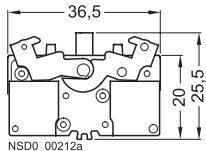
SIGNUM 22 mm Nominal Diameter

Project planning aids

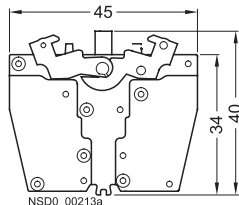
Switch blocks and lampholders

Screw connection, for front plate mounting

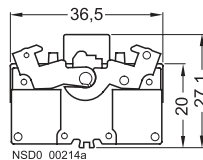
Switch block with 1 contact



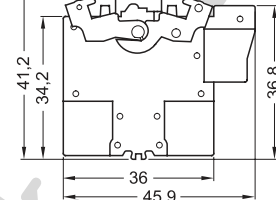
Switch block with 2 contacts



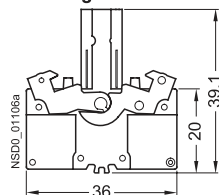
BA 9s lampholder with or without integrated voltage reducer



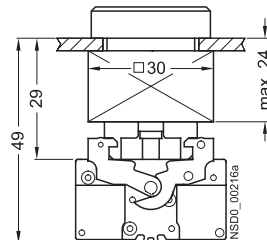
BA 9s lampholder with separate lamp test function



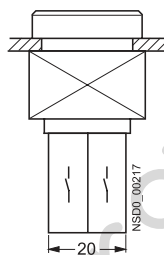
Lampholder with integrated LED



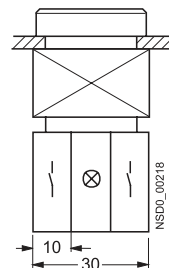
Pushbutton or illuminated pushbutton with switch blocks with 1 contact



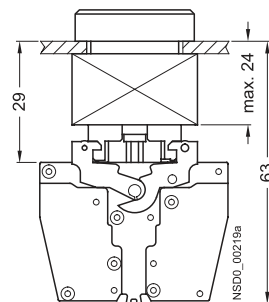
Pushbutton with switch blocks with 1 contactL



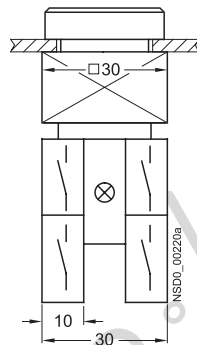
Illuminated pushbutton with switch blocks with 1 contact and lampholder



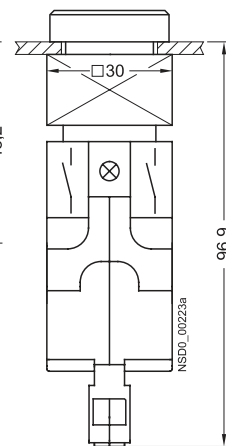
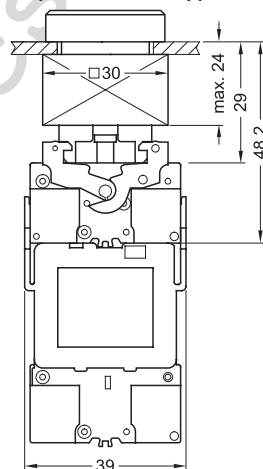
Pushbutton or illuminated pushbutton with switch blocks with 2 contacts



Illuminated pushbutton with switch blocks with 2 contacts and lampholder

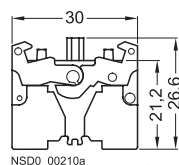


Illuminated pushbutton with switch blocks with 1 contact and lampholder with snapped-on transformer

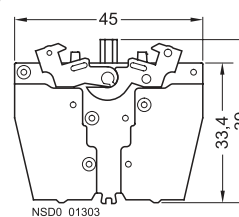


Spring-loaded terminals, for front plate mounting

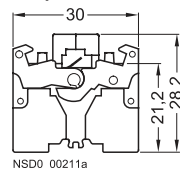
Switch block with 1 contact



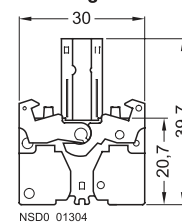
Switch block with 2 contacts



Lampholder BA 9s



Lampholder with integrated LED



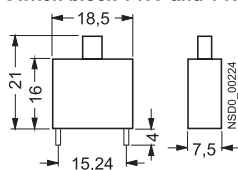
Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

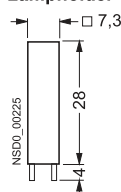
Project planning aids

With solder pins, for use on PCB

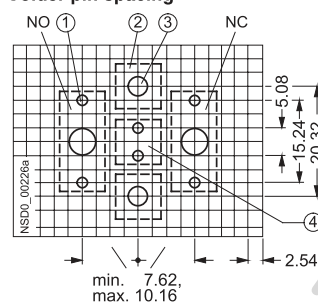
Switch block 1 NO and 1 NC



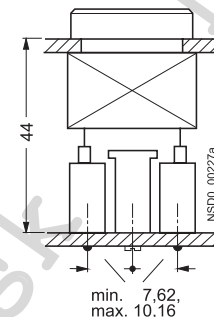
Lampholder



Solder pin spacing



Pushbutton or illuminated pushbutton with switch blocks with 1 contact and PCB support

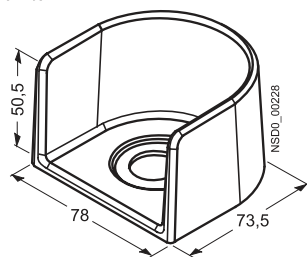


- ① Solder pin $\varnothing 1,3^{+0,1}$
- ② PCB holder
- ③ Centering hole $\varnothing 4,2^{+0,1}$
- ④ Lampholder

Accessories

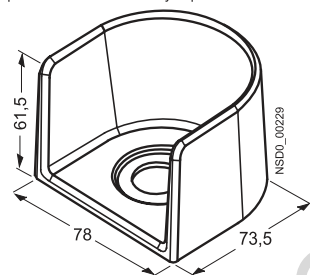
3SB39 21-0AK protective collar

for front plate mounting ¹⁾,
for EMERGENCY-STOP mushroom
pushbutton without key-operated
switch



3SB39 21-0AX protective collar

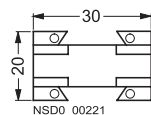
for front plate mounting ¹⁾,
for EMERGENCY-STOP mushroom
pushbutton with key-operated switch



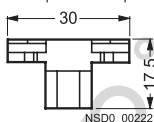
1) Can be used with a front plate thickness up to 4 mm.

Holder for mounting 3 elements

Holder for pushbuttons



Holder for selector switch, key-operated switch and On-Off pushbutton, with pressure plate



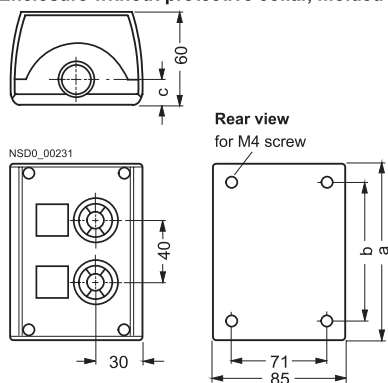
Pushbuttons and Indicator Lights

SIGNUM 22 mm Nominal Diameter

Project planning aids

Enclosures

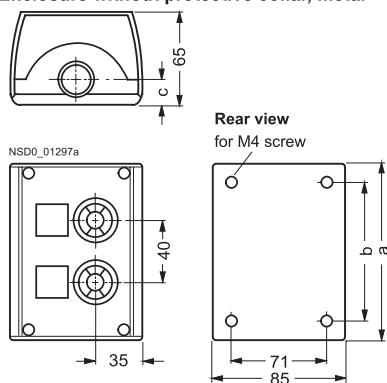
Enclosure without protective collar, molded plastic



top and bottom with knockouts for one gland each

Number of command points	Length a	Spacing b	Spacing c
1	85	54	17,5
2	114	83	17,5
3	154	123	17,5
4	194	163	17,5
6	280	249	20,5

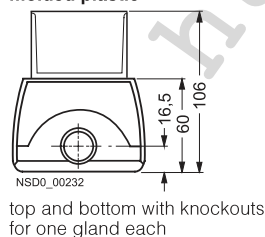
Enclosure without protective collar, metal



top and bottom with opening for one gland each

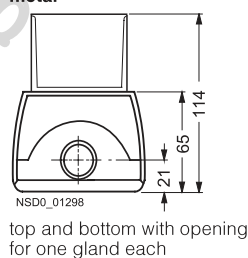
Number of command points	Length a	Spacing b	Spacing c
1	85	54	21
2	114	83	21
3	154	123	21
4	194	163	21
6	280	249	21

Enclosure with protective collar, molded plastic



top and bottom with knockouts for one gland each

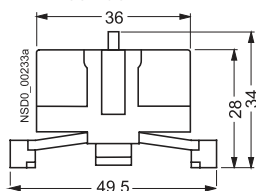
Enclosure with protective collar, metal



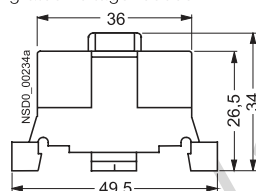
top and bottom with opening for one gland each

Screw connection, for base mounting

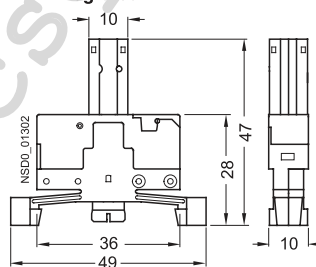
Switch block with 1 contact



BA9s lampholder with or without integrated voltage reducer

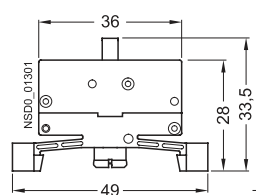


Lampholder with integrated LED

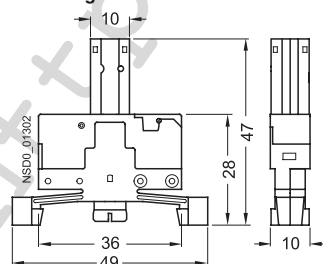


Spring-loaded terminals, for base mounting

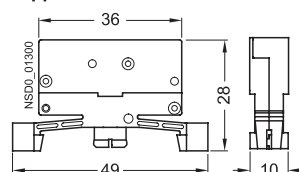
Switch block with 1 contact



Lampholder with integrated LED



Support terminal



SIGNUM Complete Operating and Display Systems

Control panels

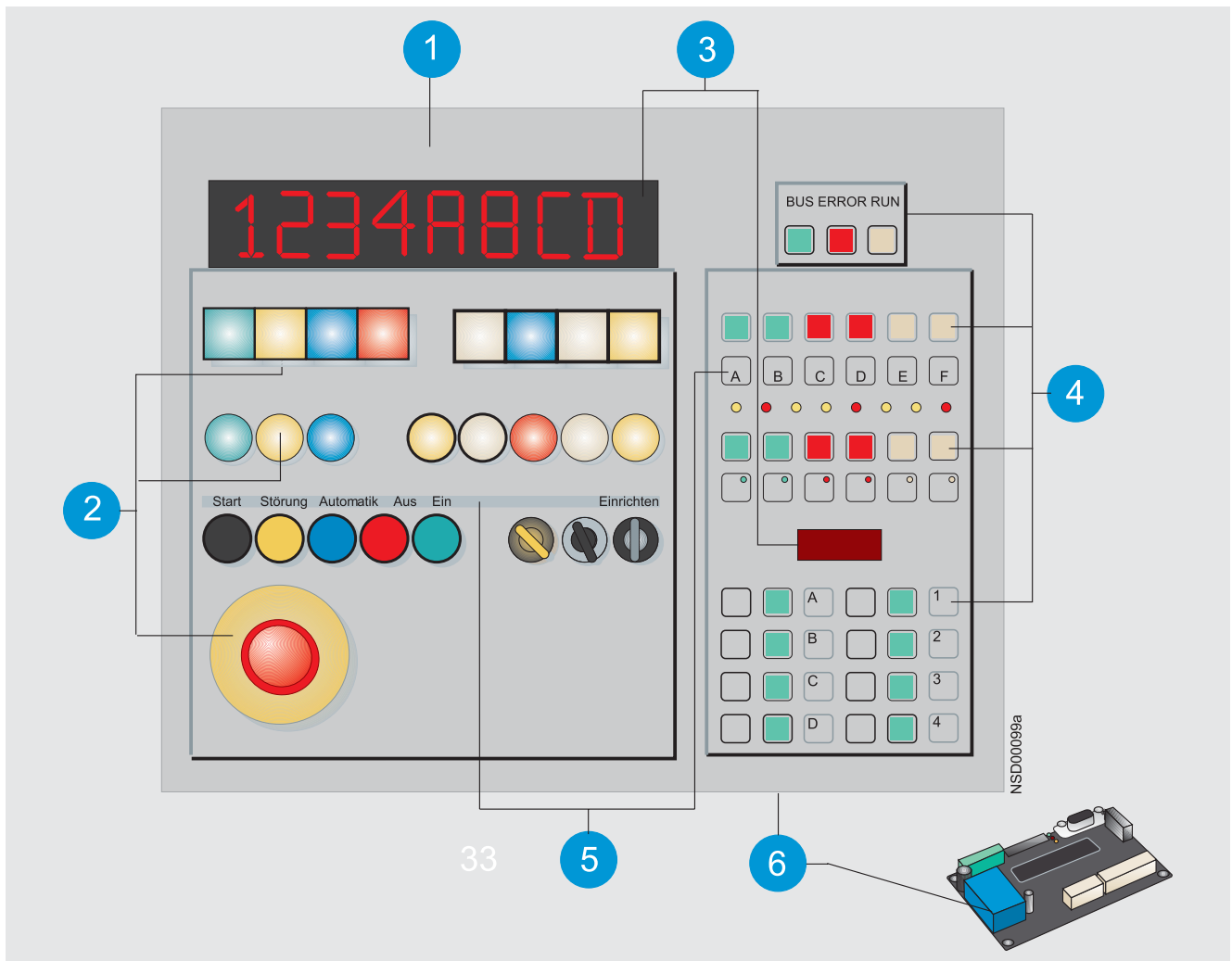
Overview

SIGNUM 3SB4 complete operator communication systems are interfaces that permit human/machine dialog.

The systems include the operator panel and the associated connection options.

SIGNUM 3SB4 complete operator communication systems are designed and supplied to meet customer-specific requirements. The Order No. is built up from modules according to the design.

Design



Design options

1 Front plates

- Any size and shape,
- Different materials, e.g. bare or anodized aluminum, sheet-steel, plastic; also film-coated
- Various colors

Equipment

- 2 Conventional 3SB1, 3SB2 and SIGNUM 3SB3 pushbuttons and indicator lights, round or square design
- 3 Indication and visualization components, e.g. multi-digit 7-segment displays and LED text displays
- 4 Membrane keyboards with and without embossing, with metal spring washers or short-stroke keys, with point illumination or fully-illuminated keypads
- Integration of other flush-mounted devices, e.g. measuring instruments, potentiometer operating mechanisms (not shown)

5 Inscription

- Printed on the front plate, anodized
- Direct on the operating surface of the pushbuttons or using insert labels or name plates
- Using foils: printed, with push-in strips.

Connections

On request, all designs can be supplied ready to connect:

- 6 With interfaces for connection to an AS interface, PROFIBUS DP and other fieldbus systems
- Conventional with screw connections or with solder connections for assembly on printed circuit boards

Enclosure

On request, all versions are available in enclosures.

Fieldbus systems

For the AS-Interface and PROFIBUS DP fieldbus systems and further bus systems, standardized solid-state units are available that can be used to link each individually designed control panel into the required bus environment without the need for costly programming work.

This function is available for both membrane keyboards, short-stroke keys and LEDs of the 3SB4 series, and for conventional SIGNUM 3SB3 control circuit devices.

Technical specifications

Fieldbus systems

Field bus interfaces for complete SIGNUM	16E/16A AS-Interface	PROFIBUS DP/I
3SB4 operator systems		
Supply voltage	DC 24 V (from AS-Interface over the AS-i Bus)	DC 24 V
Static outputs	16	8
Static inputs	16	–
Multiplex LED	–	64
Multiplex keys	–	64
Serial interface	yes	yes
MFI interface	no	yes

Options

Delivery options

The control panels can be obtained directly from our partner Dyna Systems GmbH.

For address, see Appendix, Section 15, External Partners.

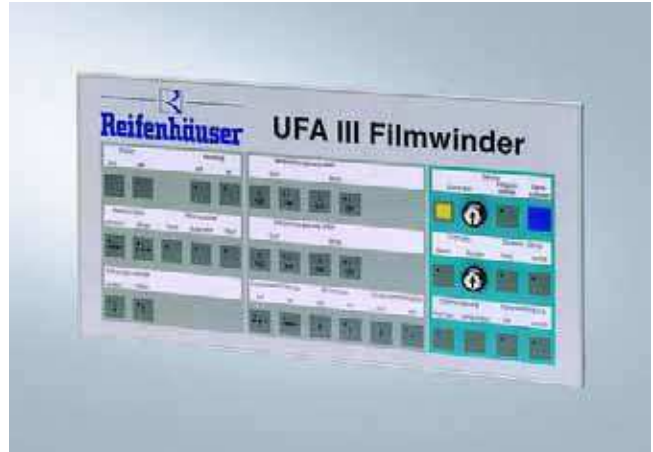
All the necessary equipment and services are available here from a single source.

- Advice during conception and design,
- Design suggestions,
- Development and supply of hardware by selection of suitable equipment,
- Development and supply of layouts for the printed circuit boards,
- Development and supply of the necessary software (function blocks, GSD files) for interfacing to the PLC,
- Preparation of necessary manufacturing and testing equipment,
- Manufacturing,
- Delivery with documentation (complete with necessary software),
- Customer service.

Examples for implementation

The following are available:

- Control panels with membrane keyboard
- Control panels with SIGNUM 3SB3 command and signaling devices
- Control panels with membrane keyboard and SIGNUM 3SB3 command and signaling devices



Operator panel with membrane keypad



Control panels with SIGNUM 3SB3 command and signaling devices

SIGNUM Complete Operating and Display Systems

LEDs

Technical specifications

LED display		Numeric	Alphanumeric
Type of display		7-segment LED	LED dot-matrix display
Color		Red or green	Red or green
Operating voltage range		DC 24 V (via AS-i bus for AS-Interface)	DC 24 V
Power consumption for digit height	10 mm 13 mm 17 mm 20 mm 30 mm	0.15 W per digit 0.15 W per digit – 0.2 W per digit 0.3 W per digit	– – 0.2 W per digit – 0.3 W per digit
Display	With AS-i bus With PROFIBUS DP With A/D converter With A/D converter With A/D converter	0 ... 9 and A, b, -, blank 0 to 9 and A, b, C, d, E, F, H, L, o, P, r, U 000 ... ±1999 DC 0 to ±2 V, DC 0 to ±10 V, 0 to ±20 mA, 4 to 20 mA 600 ... 1999 625 ... 1999 for 1 V: –75 ... 275; for 5 V: 1730 ... 1999 580 ... 1999 at 4 mA: –435 ... 75; at 20 mA: 580 ... 1999 Permanently adjustable to specification	– ASCII code – – –
• Input ranges • Display value – DC at 0 ... ±2 V – DC at 0 ... ±10 V – DC at 1 ... 5 V – at 0 ... 20 mA – at 4 ... 20 mA • Decimal point	With A/D converter		
Addressed		1 address per display. With AS-Interface: After the 15th addressing procedure, the display retains the last address	
Baud rate	With PROFIBUS DP	12 MBaud	1.5 MBaud
Enclosure		Flush mounting enclosure acc. to DIN, metal	
• Mounting		Screw clamps acc. to DIN	
• Degree of protection	At the front With AS-Interface	IP54 IP65	
Ambient temperature	in operation during storage	0 ... +50 °C –25 ... +70 °C	0 ... +45 °C –10 ... +60 °C
EMC		Acc. to Guideline 89/336/EC (or EMVG)	
• Interference transmis- sion		Basic specification IEC 61000-6-4, EN 61000-6-4 Product specification EN 55011, Group 1/2, Class A, March 1991 Edition Limit curve identical to EN 55022	
• Interference resistance		Basic specification IEC 61000-6-2, EN 61000-6-2	

Selection and ordering data

Design Character height, digits	Color	DT	Order No.	PS*	Weight per PU, approx. kg
Numeric LED display for flush mounting, with A/D converter ¹⁾					
10 mm, 3 ½ digits	red	C	3SB41 01-1AD	1 unit	0.300
13 mm, 3 ½ digits	red	C	3SB41 01-1BD	1 unit	0.300
20 mm, 3 ½ digits	red	C	3SB41 01-1CD	1 unit	0.300
Numeric LED display for flush mounting, with AS-Interface ²⁾					
with 4 additional, isolated, digital inputs					
13 mm, 4 digits	red	C	3SF41 02-1B	1 unit	0.300
	green	C	3SF41 02-2B	1 unit	0.300
30 mm, 4 digits	red	C	3SF41 02-1D	1 unit	0.300
	green	C	3SF41 02-2D	1 unit	0.300
Numeric LED display for flush mounting, with PROFIBUS DP ³⁾					
13 mm, 6 digits	red	C	3SF41 03-1BG	1 unit	0.300
Alphanumeric LED display for flush mounting, with PROFIBUS DP ³⁾					
17 mm, 8 digits	red	C	3SF41 13-1EJ	1 unit	0.300
30 mm, 8 digits	red	C	3SF41 13-1HJ	1 unit	0.300

Further technical specifications as well as programming examples for function blocks and GSD files are available on the Internet:

www.siemens.de/bediensysteme

1) The input range and the measured variable must be stated in plain text in your order. Input ranges according to the table above without additional charge.

All other input ranges not listed here can be ordered by specifying the range in plain text. This is subject to an extra charge (see above).

An extra charge also applies for indicating the measured variable or units, e.g. m, °C, mbar, m³/h (see above).

2) For interfacing with the PLC (S5, S7-300, S7-400), function block sample programs are included with each delivery.

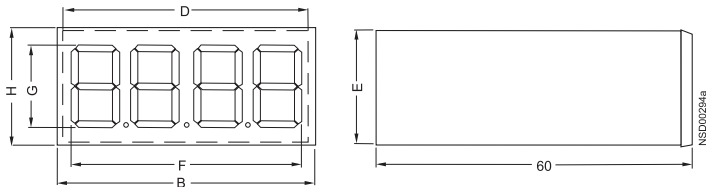
3) The GSD file is included with every delivery.

Options

Special designs of numeric displays, e.g. special sizes, can be obtained directly from our partners
microSYST Systemelectronic GmbH.

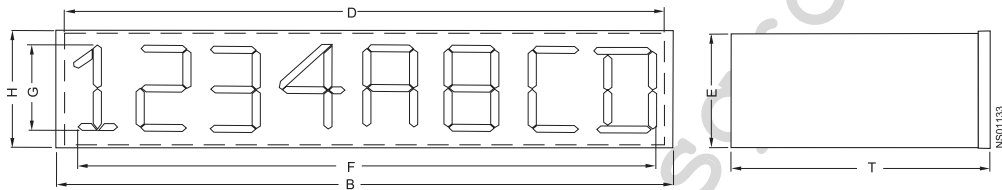
Dimension drawings

Numerical LED display for flush mounting



Character height G	B	H	D	E	Panel cutout
10	48	24	43.5	20	$45^{+0.6} \times 22.2^{+0.3}$
13	96	24	92	20	$92^{+0.8} \times 22.2^{+0.3}$
20	96	48	92	43	$92^{+0.8} \times 45^{+0.3}$
30	144	48	138	43	$138^{+0.6} \times 45^{+0.6}$

Alphanumeric LED display for flush mounting



Character height G	F	B	H	D	E	T	Panel cutout
17	139	168	24	158	20	61	$165^{+1} \times 21^{+0.3}$
30	225	264	48	254	40	40	$255^{+1} \times 41^{+0.6}$

