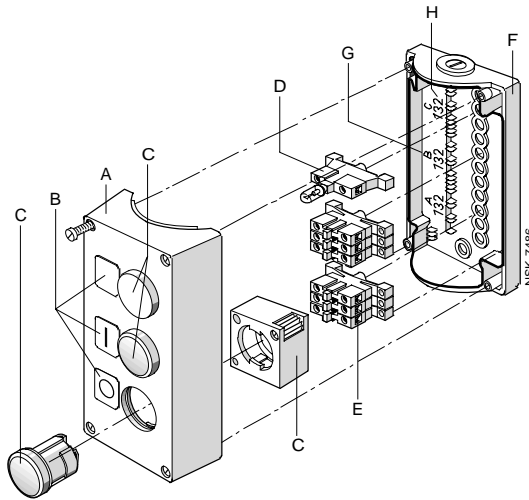


SIGNUM 3SB3 Enclosed Pushbutton Units and Indicator Lights

○ Round Program, 22 mm

Description



- A Upper part of enclosure
- B Inscription plates
- C Actuator with holder
The normal actuators and lamp elements can be built in. Instead of the actuator, a blank plug can be fitted.
- D Function number
- E Contact blocks, lamp holders, voltage reducer for base mounting. Each actuator/pushbutton can be fitted with 3 contact blocks. The equipment is fitted in the factory in compliance with DIN 50 013 (terminal inscriptions and figures for particular command devices).
- F Bottom part of housing
- G Letters for identifying the command points on the inside of the upper and lower parts of the enclosure.
- H Contact designators

Applications

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

Standards and Specifications

DIN VDE 0660 and IEC 60 947-5-1.

Design

The device is supplied as a complete unit with standard equipment or equipment of choice.

Enclosures

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

Cable openings: on the top or bottom of the smaller sides of the enclosure for Pg 16/Pg 21 screw connections.

Enclosure colour:
Top section: RAL 7035 (light grey)
Bottom section: RAL 9005 (black)

The moulded-plastic enclosure meets the protective requirement "Protection insulation".

Actuators

The actuators and lens assemblies with 22 mm mounting diameter can be used (see pages 9/21 to 9/27).

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

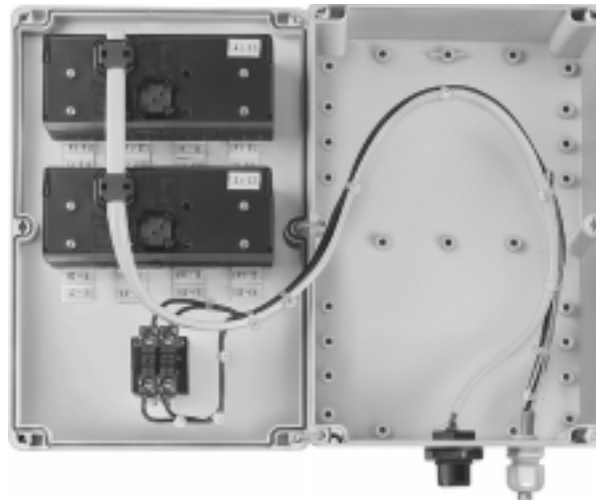
Contact blocks and lampholders

Contact blocks and lampholders are snapped into the enclosure. Each command point can be fitted with either 3 contacts or 2 contacts + 1 lampholder/lampholder with integrated voltage reducer.

The contact blocks have a movable double switch contact and therefore an increased switching reliability. They can therefore be used in solid-state control systems. Function numbering is shown on the contact block.

Single pole contact blocks and lampholders for front-plate mounting can be used (see page 9/45).

Enclosures to choice





Enclosures with more than 6 command points, also with AS-Interface connection, can be supplied, according to the customer's requirements.

See order form, Order No. E20001-P285-A605.

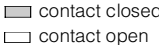



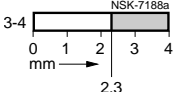
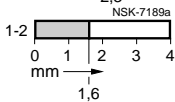
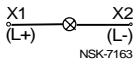
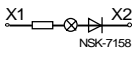
SIGNUM 3SB3 Enclosed Pushbutton Units and Indicator Lights


○ Round Program, 22 mm

Empty housings Selection and ordering data

Version	Number of command points	Moulded-plastic housing Order No. Preferred type	Price 1 unit	Weight approx. kg	Packing Units
 <p>  Cable entry top and bottom 1 × Pg 16 each, 1 × Pg 21 for 6 command points </p> <p>for contact blocks, lampholders and accessories with base mounting for snapping on, also 1-pole front panel elements can be used (Switching state remains the same when opened)</p>	1	▶ 3SB38 01-0AA		0.14	1
	2	▶ 3SB38 02-0AA		0.18	
	3	▶ 3SB38 03-0AA		0.28	
	4	▶ 3SB38 04-0AA		0.32	
	6	▶ 3SB38 06-0AA		0.36	
for EMERGENCY-STOP, with yellow cover or contact blocks, lampholders and accessories with base mounting for snapping on, also 1-pole front panel elements can be used (Switching state remains the same when opened)	1	3SB38 01-0AB		0.14	1

Actuators and lampholders Selection and ordering data

Version	Symbols	Contact travel	Order No.	Price 1 Unit	Weight approx. kg	Packing Units
			▶ Preferred type			
<i>for base mounting</i>						
 <p>Contacts</p> <p>1 NO</p> <p>1 NC</p>	 	 	▶ 3SB34 20-0B		0.010	10
			▶ 3SB34 20-0C			
Support clamps	black blue green/yellow		3SB39 01-0AG 3SB39 01-0AH 3SB39 01-0AJ		0.015	
Lampholder BA 9s			▶ 3SB34 20-1A		0.013	10
Lampholder Operational voltage 230/240 V AC BA 9s with integrated voltage reducer and 130 V lamp ¹⁾			▶ 3SB34 20-1C		0.013	10

 Safety function acc. to IEC 60 947-5-1-3 and DIN VDE 0660, Part 200.

1) The lamp is included.

SIGNUM 3SB3 Enclosed Pushbutton Units and Indicator Lights


○ Round Program, 22 mm

Units with standard equipment
Selection and ordering data

With 1 to 3 command points, up to 400 V AC/DC, vertical mounting, with moulded-plastic front rings.

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

With contact blocks for base mounting (snapped into the lower part of the enclosure).

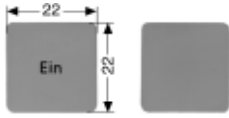
Equipped with (A, B, C = identification letters for command points) Actuators	Degree of protection	Contact blocks ¹⁾	Number of com- mand points	▶	Order No. Preferred type	Price 1 unit	Packing	
							Weight approx. kg	Units
 Cable entry top and bottom 1 x Pg 16 each								
A = Pushbutton unit green, label "I"	IP 65	1 NO	1	▶	3SB38 01-0DA		0.17	1
A = Pushbutton unit white, label "I"	IP 65	1 NO	1		3SB38 01-0DD		0.17	1
A = Pushbutton unit red, label "O"	IP 65	1 NC	1		3SB38 01-0DB		0.17	1
A = Pushbutton unit black, label "O"	IP 65	1 NC	1	▶	3SB38 01-0DE		0.17	1
A = EMERGENCY-STOP mushroom- shaped pushbutton unit, Ø 40 mm with positive latching function acc. to EN 418, top part of enclosure yellow	IP 65	1 NC	1	▶	3SB38 01-0DG		0.19	1
A = EMERGENCY-STOP mushroom- shaped pushbutton unit, Ø 40 mm with positive latching function acc. to EN 418, top part of enclosure yellow, with shroud	IP 65	1 NC	1	▶	3SB38 01-0DF		0.22	1
B = Pushbutton unit green, label "I"	IP 65	1 NO	2	▶	3SB38 02-0DA		0.23	1
A = Pushbutton unit red, label "O"		1 NC						
B = Pushbutton unit white, label "I"	IP 65	1 NO	2		3SB38 02-0DB		0.23	1
A = Pushbutton unit black, label "O"		1 NC						
C = Indicator light clear, blank label	IP 65	BA 9s	3		3SB38 03-0DA		0.35	1
B = Pushbutton unit green label "I"		1 NO						
A = Pushbutton unit red, label "O"		1 NC						
C = Indicator light clear, blank label	IP 65	BA 9s	3		3SB38 03-0DC		0.35	1
B = Pushbutton unit white label "I"		1 NO						
A = Pushbutton unit black, label "O"		1 NC						
C = Pushbutton unit black, label "II"	IP 65	1 NO	3		3SB38 03-0DB		0.35	1
B = Pushbutton unit black label "I"		1 NO						
A = Pushbutton unit red, label "O"		1 NC						

1) The command units can be fitted with more than 1 contact block (max. 3 contact blocks), if required. Supplement the Order No. with "-Z" and specify the number of contact blocks required. Price upon request.

SIGNUM 3SB3 Enclosed Pushbutton Units and Indicator Lights

○ Round Program, 22 mm

Inscription plates Selection and ordering data



The inscription plates (black with white inscription)¹⁾ have an adhesive layer on the back. The inscription (also the special inscription) has capital initial letters.

In the case of words of a foreign language, give the exact spelling and specify the language.

Inscription	Order No.	Inscription	Order No.	Inscription	Order No.	Inscription	Order No.
	▶ Preferred type						
without inscription	▶ 3SB39 06-1AA	Schnell Fast	3SB39 06 -1AM 3SB39 06 -1ER	Special inscriptions		Symbols	
Price		Langsam Slow	3SB39 06 -1AN 3SB39 06 -1ES	3 lines with 11 letters each are possible Font size: 4 mm (1 to 3 lines)	3SB39 06-0XZ K0Y, K1Y, K2Y or K9Y	O I II III	3SB39 06-1MB 3SB39 06-1MC 3SB39 06-1MD 3SB39 06-1ME
Ein	3SB39 06-1AB	Betrieb Running	3SB39 06 -1AP 3SB39 06 -1EV	Supplement the Order No. with the following Order Code:		O I I O II	3SB39 06-1MF 3SB39 06-1MG
On	3SB39 06-1EB	Störung Fault	3SB39 06 -1AQ 3SB39 06 -1EW	- Capital initial letters	K0Y	I O	3SB39 06-1MF
Aus	3SB39 06-1AC	Einrichten Reset	3SB39 06 -1AR 3SB39 06 -1EM	- Capital letters	K1Y	II O I	3SB39 06-1MW
Off	3SB39 06-1EC	Test	3SB39 06 -1EN	- Small letters	K2Y	→	3SB39 06-1NA
Auf	3SB39 06-1AD	Start	3SB39 06 -1EL	- Acc.to order	K9Y		
Up	3SB39 06-1ED	NOT-AUS	3SB39 06 -1AS			Price	
Ab	3SB39 06-1AE	Lüfter Pumpe	3SB39 06 -1CA 3SB39 06 -1CB	Order requirements: When ordering, supplement the Order No. with corresponding Order Code and state the required inscription in plain text. In the case of special inscriptions in foreign languages, give the exact spelling and specify the language.		Other symbols acc. to DIN section 4	3SB39 06-0XZ K3Y state consecutive No. as well
Down	3SB39 06-1EE	Kühlung Heizung	3SB39 06 -1CC 3SB39 06 -1CD			Special symbols on request	
For	3SB39 06-1AF	Beleuchtung Filter	3SB39 06 -1CE 3SB39 06 -1CF				
Forward	3SB39 06-1EF	Motor Kompressor	3SB39 06 -1CG 3SB39 06 -1CH				
Zurück	3SB39 06-1AG						
Reverse	3SB39 06-1EG						
Rechts	3SB39 06-1AH						
Right	3SB39 06-1EH						
Links	3SB39 06-1AJ						
Left	3SB39 06-1EJ						
Halt	3SB39 06-1AK						
Stop	3SB39 06-1EK						
Auf	3SB39 06-1AD						
Open	3SB39 06-1EP						
Zu	3SB39 06-1AL						
Close	3SB39 06-1EQ						
Price		Price		Price	for "K9Y" plus per unit	Price	

Accessories

Fig No.	Version		Order No.	Price	Weight approx.	Packing
			▶ Preferred type	1 unit	kg	Units
1	Yellow backing plate as contrasting area for enclosed EMERGENCY-STOP command device, self adhesive	without inscription with inscription	▶ 3SB19 02-1AQ 3SB19 02-2AQ		0.005	1
2	Blank plug for round design	black	▶ 3SB39 21-0AA		0.010	10
-	Connecting element for connecting 2 housings		3SB39 01-0AE		0.008	1
3	Holder for pushbutton units²⁾ for snap-on fitting of 3 elements, with front-plate mounting		▶ 3SB39 01-0AB		0.001	20
4	Holder for knobs and locks with pressure supports, for actuating the central contact block, with front-plate mounting		▶ 3SB39 01-0AC		0.001	10

1) The inscription plates from the 3SB1 range (silver with black lettering) can also be used, see page 9/114.

2) Holder also for pressure plates, mushroom-shaped pushbutton units and push-pull button units.

SIGNUM 3SB3 Enclosed Pushbutton Units and Indicator Lights

○ Round Program, 22 mm

Accessories

Fig. No.	Version	Order No.	Price	Weight approx.	Packing
		▶ Preferred type	1 unit	kg	Units
5	Pressure support for knobs and locks for actuating the central contact block, with base mounting	▶ 3SB39 01-0AW		0.001	10
6	Cable gland Pg 16 (without hexagon nut)	3SB39 01-0AK		0.010	1
7	Hexagon nut for cable gland Pg 16	3SB39 01-0AL		0.001	1
8	Terminal Pg 16 for AS-Interface cable suitable receptacles crimp snap-in contacts 0.2–0.56 mm ²	3SB39 01-0AF			1
–	Cable gland Pg 16 (without hexagon nut)	3SB39 01-0AM		0.010	1
–	Hexagon nut for cable gland Pg 21	3SB39 01-0AN		0.001	1
–	Capped nut for fixing actuator in enclosure	3SB39 31-0AB			



Housing with equipment to choice Selection and ordering data

With 1 to 4 command points;
up to 400 V AC/DC; degree of protection
IP 65

Each command point consists of an actuator/indicator with contact blocks or a lampholder and inscription plate (see page 9/58). The selection of command points is found on pages 9/70 to 9/73.
Order using order form (see page 9/61).

Pricing

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

Version	Number of command points	Moulded-plastic housing Order No.	Price 1 unit	Weight approx. kg	Packing Units
3SB38 03 – .AZ The equipment shown is only an example.	1	3SB38 01-0AZ		0.17	1
	2	3SB38 02-0AZ		0.23	
	3	3SB38 03-0AZ		0.35	
	4	3SB38 04-0AZ		0.41	
	6	3SB38 06-0AZ		0.51	
	For surface mounting, with single-pole contact blocks and lampholders for front-plate mounting	1	3SB38 01-1AZ		0.17
2		3SB38 02-1AZ		0.23	
3		3SB38 03-1AZ		0.35	
4		3SB38 04-1AZ		0.41	
6		3SB38 06-1AZ		0.51	



SIGNUM 3SB3 Enclosed Pushbutton Units and Indicator Lights

○ Round Program, 22 mm, Equipment to Choice

Guide for completion of the order form appendix

I Enter the Item No.

II Enter quantity

III Enter the Order No.

e. g.

3SB38 0.-0AZ for surface mounting, moulded-plastic housing, contact blocks for base mounting,

3SB38 0.-0AZ for surface mounting, moulded-plastic housing, contact blocks for front-plate mounting.

Supplement for the 7th position of the Order No. (number of command points) must be entered in accordance with the data on page 9/59.

IV Enter data in the boxes

IV/1 **Select actuators** in accordance with pages 9/70 to 9/72 and enter the codes. Various Ø 40 mm mushroom-shaped pushbutton units 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 upper and lower part of the housing is to simplify ordering and complementing of housings.




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

Please observe DIN EN 60 204/VDE 0113 and IEC 60 204:




The OFF pushbutton must be black but could also be red and should be situated at the bottom or to the left; should be fitted in the middle only for reverse operation. Illuminated pushbuttons are not used as OFF pushbuttons.

A yellow backing plate must be used in conjunction with a red EMERGENCY-STOP mushroom-shaped pushbutton. These are available at an additional price. (see IV/6).

Vertical mounting

On		white or clear
On		green or white
Off		red or black

Horizontal mounting

			On	Off	On
---	---	---	----	-----	----

IV/2 **Specify contact blocks, lampholders and voltage reducers for each command point**

Select the code for the required equipment in accordance with the table on page 9/73 and enter them in the appropriate column.

For pushbutton units
actuators with 2 switching positions
illuminated pushbutton units
indicator lights

the quantity and type of contact block or lampholder required etc. must be entered.

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

If a lampholder without a voltage reducer but with a lamp is to be supplied, state the lamp voltage and, for 110 V, the lamp type (incandescent, LED or glow lamp) under IV/3.

For actuators with 3 positions, the table on Page 9/73 contains all possible combinations that comply with DIN EN 50 013. Enter the code. If a different arrangement of contact blocks is desired for a command point, this command point must be ordered without contact blocks. The contact blocks must be ordered separately and fitted into the housing.

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

IV/3 **Notes on non-standard version of the equipment**

Non-standard refers to equipment that differs to that listed in the catalog,

e. g. Additional supply of lamps without voltage reducers:
State lamp voltage and type of lamp
(incandescent, glow lamp or LED),

e. g. Insert labels for illuminated pushbuttons.
Select Order No. from pages 9/47 and 9/48 and enter accordingly,

e. g. for lockable actuators:
special locks (= different Lock No.).

IV/4 **Inscription of the inscription plates**

Enter the text. For selection of the inscription plates, see page 9/57. If a blank plate is required, state "without inscription".

The inscription plates are delivered loose. If an inscription plate is not to be inserted, state "without inscription plate".

Inscription plates with a special text can be supplied at an additional price. Enter the text. The inscription plates are delivered adherent to the upper part of the enclosure.

The inscription is made with capital initial letters.

IV/5 **Tick the position of the inscription plate for horizontal or vertical mounting.**

If no entry has been made, the plates will be delivered for vertical mounting.

IV/6 **Special requirements (only if requested)**

Special requirements refer to enclosures not listed in the catalog,

e.g. if required, mark the "yellow backing plate" which is in accordance with DIN 57 133/VDE 0113,. Enclosures with only one command point will then be supplied with a yellow upper part. Should the enclosure have more than one command point, a yellow backing plate will be factory fitted at point "A". If the yellow backing plate should be fixed to another command point, please state which one this is to be.

Order form can be copied from page 9/61.

SIGNUM 3SB3 design software

SIGNUM 3SB3 command devices can be ordered using this software.

Features:

- Supply and ordering of customer-specific enclosures,
- Construction tool for designing control panels with SIGNUM 3SB3 command devices,
- Easy selection of the widest range of inscriptions,
- Generation of parts lists, component mounting diagrams and drill templates,
- Generation of the completed order.

Order No. E20001-D0100-P221-V2-6400



SIGNUM 3SB3 Enclosed Pushbutton Units and Indicator Lights

○ Round Program, 22 mm, Equipment to Choice

Order form appendix
(not for equipment with standard arrangement)

Order form appendix

for 3SB3 SIGNUM enclosed pushbutton units and indicator lights to be equipped to choice. Selection data and explanation see catalog NS K

to Siemens AG, A&D CD GKA LZA

Amberg
Fax: (0 96 21) 80-31 02

Date

Customer ref. No/REF.No.11

Suppliers ref. No.

Ⓘ Item No.

Ⓙ Quantity

Ⓚ Order No. 3SB38 Z

Complete Order No. from selection table

Ⓛ IV/4

Inscription of the inscription plates (max. 11 characters 1 to 3 lines)

IV/1

Actuators (codes)

IV/2

Contact blocks, Lampholder, Voltage reducer (codes) *

IV/3

Notes on non-standard versions (Lamp voltage, insert labels, inscription by laser, special lock)

IV/4	IV/1	IV/2	IV/3

top or right

bottom or left

A to F are identification letters on the inside of the upper and lower parts of the enclosure

NSK-7547a

IV/5 Position of inscription plates for

- vertical mounting
- horizontal mounting

IV/6 Special requirements, e.g.

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

SIGNUM 3SB3 design software simplifies selection and ordering.
Order No. E20001-D0100-P221-V2-6400.

* Should actuators with three positions be used, the numerical codes shown in this catalog for the contact block arrangement should be stated (e.g. 03 for 2 NO, 05 for NC etc.).

SIGNUM 3SB3 Enclosed Pushbutton Units and Indicator Lights

○ □ Round and Square Program

SIGNUM command devices with AS-Interface connection

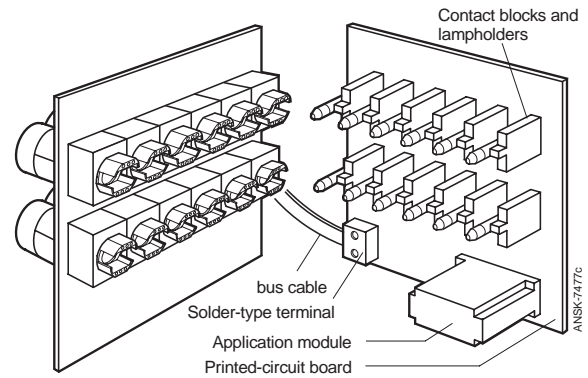


Application module for use on printed circuit board



Via the 3RK1 400-0CD00-0AA3E/4A) module for use on a printed-circuit board, up to four mechanical contact blocks can be scanned or light indicators controlled, with the power supplied from the AS-Interface System.

The technical data for the 4I/4O module are shown in part 1.

For operating this module with command devices, a printed circuit board which fits to the front panel layout must be provided by the customer. The printed circuit board is attached by means of the 3SB39 01-0AA printed circuit board plate (see page 9/53). Solder-type contact blocks and lampholders (see page 9/46), the 4E/4A-module and screw-type terminals with solder pins can be soldered to this printed-circuit board.



Selection and ordering data

Version	Order No.	Price	Weight approx	Pack.
Application module	 3RK1 400-0CD00-0AA3	each	kg	each
	AS-Interface 4I/4O application module for use on printed-circuit board, 4 x 1 input, 4 x 1 output		0.04	1

AS-i individual interface for SIGNUM control devices

The AS-i individual interface system can be used with a modified AS-i slave (4I/4O with U_{aux}) to supply a total of 28 normally-open contacts and 7 indication outputs.

The normally open contacts and lamps are located in modules that are snapped on behind the appropriate control devices instead of the usual switching elements and lampholders.

These are looped together and connected to the AS-i slave using a single 10-pole ribbon cable.

Configuration

The system is controlled by a function block in the PLC program.

A bit pattern with addresses from 1 to 7 is output to the 10-pole ribbon cable via three outputs of the AS-i slave.

Each individual AS-i module has a coding switch that allows a sub-address of 1 to 7 to be set so that the module can be addressed specifically.

These seven settable sub-addresses allow up to 28 normally open contacts to be processed on the four input lines of the AS-i slave. The lamps are controlled via the output address (O1 to O3) and output 4 of the AS-i slave.

SIGNUM 3SB3 Pushbutton Units and Indicator Lights

○ □ Round and Square Program



Designing

It is possible to operate e.g. 28 pushbuttons and seven indicating lamps form an AS-i slave. In practice, combinations with illuminated pushbuttons and 3-position switches also occur.

To make optimum use of the available inputs and outputs of the AS-i slave, the individual AS-i modules are divided up into various types, each containing one or two normally-open contacts and/or a lamp.

The first column of the table shows the type number.

The second and third columns specify whether the module contains a lamp and whether there are one or two normally-open contacts. The slave input that receives the signal from the normally-open contact(s) of the particular type is shown in brackets.

The fourth column shows examples of command devices of each type.

Selection criteria

The following should be noted when selecting the various types:

- Types with lamp (type 1 to type 3) may be used a maximum of seven times, as each lamp must be assigned a sub-address between 1 and 7.

- During further selection, it must be noted that each AS-i slave input (I1 to I4) may only be used up to seven times because of the addressing.

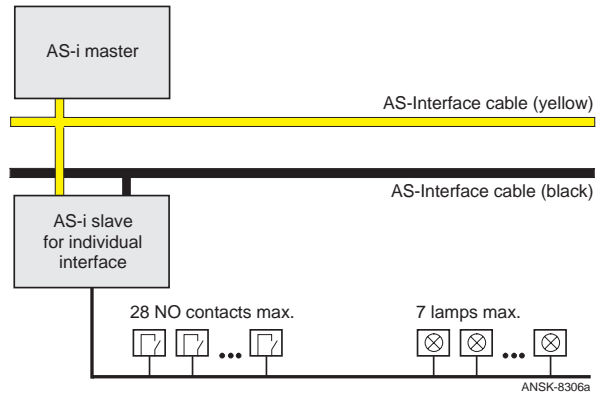
Example

An operating panel consists of 2 indicating lamps, 3 illuminated pushbuttons, 12 pushbuttons and an illuminated knob. For this, the following types should be selected:

- 2 indicating lamps: 2 x type 1 (lamp complete); Sub-addresses 01 and 02 are set.
- 3 illuminated pushbuttons: 2 x type 2 (lamp, 1 normally open contact); sub-addresses 03, 04 and 05 are set.
- 12 pushbuttons: 7 x type 4 (7 normally open on slave input I4); Sub-addresses 01 to 07 are set.
- 5 x type 5 (5 normally open on slave input I3); Sub-addresses 01 to 05 are set.
- 1 illuminated knob I-O-II: 1 x type 3 (1 lamp, 2 normally open); Sub-address 06 is set.

An AS-i slave for ribbon cable connection and the ribbon cable itself are required to complete the system. Each individual module is supplied with a plug for the ribbon cable.

AS-i individual interface for SIGNUM control devices



Type	Lamp	NO contacts	Command devices
Type 1	1 lamp	–	Indicator light
Type 2	1 lamp	1 NO (I1)	Illuminated pushbutton/switch, Illum. mushr. pushbutton/switch, Illuminated knob O-I
Type 3	1 lamp	2 NO (I2/I3)	Illuminated knob O-I, Illuminated double pushbutton
Type 4	–	1 NO (I4)	Pushbutton/switch, Mushroom pushbutton/switch, Knob O-I, lock O-I
Type 5	–	1 NO (I3)	Pushbutton/switch, Mushroom pushbutton/switch, Knob O-I, lock O-I
Type 6	–	1 NO (I2)	Pushbutton/switch, Mushroom pushbutton/switch, Knob O-I, lock O-I
Type 7	–	1 NO (I1)	Pushbutton/switch, Mushroom pushbutton/switch, Knob O-I, lock O-I
Type 8	–	2 NO (I2/I3)	Knob I-O-II, lock I-O-II, Double pushbutton
Type 9	–	2 NO (I4/I1)	Knob I-O-II, lock I-O-II, Double pushbutton

Selection and ordering data

Version	Equipment	Order No.	Price	Weight approx.	Packing
			1 unit	kg	Unit
3SB39 01-0AS	AS-i slave for individual interface AS-i module with 4I/4O and 24 V DC auxiliary voltage connection, with plug for ribbon cable connection; with auxiliary voltage	3SB39 01-0AR		0.1	10
	Ribbon cable , 10-pole, 30.5 m roll	3SB39 01-0AS		0.01	10
	Plug for ribbon cable (spare)	3SB39 01-0AT		0.001	10
3SB39 01-0AT	AS-i individual modules with plug				
	Type 1	⊗	3SB34 02-5A	0.001	1
	Type 2	⊗ {	3SB34 02-5B		
	Type 3	{ ⊗ }	3SB34 02-5C		
	Type 4	{ }	3SB34 02-5D		
	Type 5	{ }	3SB34 02-5E		
	Type 6	{ }	3SB34 02-5F		
	Type 7	{ }	3SB34 02-5G		
	Type 8	{ }	3SB34 02-5H		
	Type 9	{ }	3SB34 02-5J		

SIGNUM 3SB3 Pushbutton Units and Indicator Lights

○ □ Round and Square Program

PROFIBUS-DP individual interface
for SIGNUM control devices



SIGNUM 3SB3 with PROFIBUS-DP interface

The SIGNUM 3SB3 individual DP interface allows up to 64 pushbuttons and indicator lamps from the SIGNUM 3SB3 range to be easily connected to PROFIBUS-DP.

All switch positions and the control signals for the command devices can be transmitted to automation systems via PROFIBUS-DP using this interface. This considerably reduces the cost of wiring and simplifies service.

The SIGNUM 3SB3 individual DP interface consists of the DP slave and up to 64 individual DP modules. An individual DP module is required for each 3SB3 actuator to be connected, this being snapped onto the rear of the actuator instead of the conventional contact block.

Design and assembly

The DP slave is contained in a compact and flat 90 mm housing with protection class IP 20 for mounting onto top-hat rail.

The devices can be mounted in a row without intermediate spaces.

The 24 V DC supply voltage is connected via screw terminals (4 pole with looping facility).

The interface to the PROFIBUS-DP is a 9-pole SUB-D angled socket.

The interfaces to the 3SB3 control devices are four 10-pole multipin connectors with locking facility.

These each allow the connection of a maximum of four ribbon cables, each with up to 16 connection plugs for the 3SB3 control devices.

Method of operation and use

The PROFIBUS slave converts the switching status of the connected 3SB3 pushbuttons to PROFIBUS-DP protocol and controls the connected indicator lamps in accordance with the signals transmitted from the automation equipment via PROFIBUS-DP.

A data transmission rate of up to 12 Mbaud is possible on PROFIBUS-DP.

To commission the interface, it is only necessary to preset the PROFIBUS-DP address using the DIP switch on the DP slave and to assign an address to the connected DP elements using the built-in rotary switch. Duplication of addresses is shown by a fault LED on the DP slave.

The baud rate and other bus parameters are predetermined by the master module. The individual interface adapts itself automatically to the predetermined values.

Communication between the DP slave and the 3SB3 control devices is established automatically after switching on the supply voltage.

The interfaces to the 3SB3 control devices and to PROFIBUS-DP are monitored continuously by the DP slave and the status is indicated by two LEDs.

Configuration of the PROFIBUS-DP individual SIGNUM 3SB3 interface is carried out using

- the COM PROFIBUS configuration software in the case of SIMATIC S5 or,
- the STEP 7 programming language in the case of SIMATIC S7 or
- appropriate programs from other manufacturers.

The DP slave carries out a plausibility check during the configuration. If an attempt is made to configure a unit that deviates from the connected pushbuttons and indicator lamps, an error message appears.

User data on the bus

- Switching status of the 3SB3 actuators (e.g. pushbutton, knob, safety lock),
- Set status of the illuminated elements (e.g. indicator lamp, illuminated pushbutton),
- Diagnostic data, e.g. 3SB3 actuator not addressable/defective,
- Configuration data, e.g. quantity, type and position of 3SB3 actuators.

Selection and ordering data

Version	Equipment	Order No.	Price	Weight approx.	Packing
			1 unit	kg	Unit
3SB39 01-0BB	DP slave for individual interface incl. 3.5" diskette with GSD file	3SB39 01-0BB		0.1	10
	Connection cable for 16 3SB3 control devices length 2 m, pre-assembled (max. 4 cables required per DP slave). As an option, ribbon cable and plugs are available separately (see page 9/63).	3SB39 01-0BA		0.001	1
3SB34 02	DP individual module for 3SB3 control devices without plug	1 lamp	3SB34 02-6A	0.001	1
		1 lamp + 1 NO	3SB34 02-6B		
		1 lamp + 2 NO	3SB34 02-6C		
		1 NO	3SB34 02-6D		
		2 NO	3SB34 02-6H		
		1 lamp test module with 1 NO	3SB34 02-6K		
Plug for ribbon cable		3SB39 01-0AT			
Ribbon cable, 10-pole		3SB39 01-0AS			

SIGNUM 3SB3 Enclosed Pushbutton Units and Indicator Lights

○ □ Round and Square Program



Front panel module for direct connection of SIGNUM command devices to the AS-Interface system

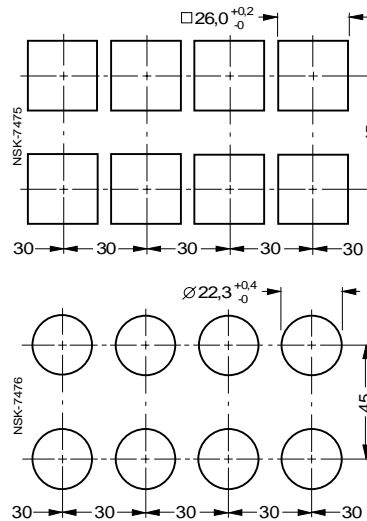
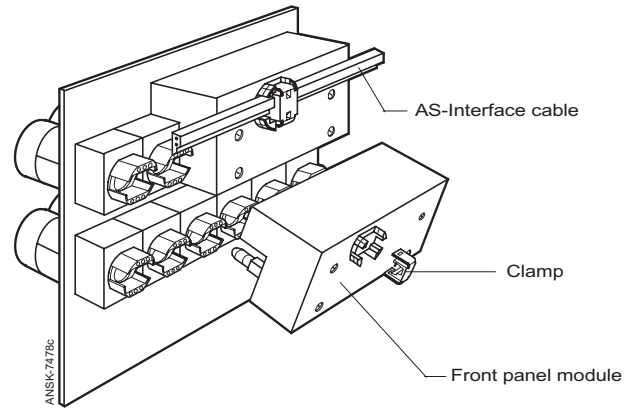
The front panel module consists of the 4I/4O AS interface module, contact blocks, lampholders and a terminal for connecting the bus cable.

The enclosure is attached with screws at the rear of the front panel on a group of four actuators situated side by side or one above the other. The bus cable is connected with a clamp (insulation piercing method) at the rear of the front panel module.

Mounting and wiring of snapped-on contact blocks or lampholders or an external power supply for the indicators is not required.

The front panel for 4 command points corresponds to one user address of the AS interface. The addressing is carried out via the AS interface connection from the master or via a CD socket from an addressing unit.

A modular spacing of 30 × 45 mm per command point must be ensured (corresponding to the modular spacing with backing plate).



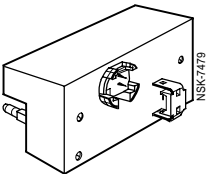
For 4 command points.

The prices consist of the price given below for the front panel module and the additional prices resulting from the selection of the command points.

A command point consists of an actuator or indicator light with contact block(s) or lampholder for use on a printed-circuit board. Insert labels, backing plates, etc. for inscription must be ordered separately (see pages 9/47

to 9/50). The command points are selected according to pages 9/70 to 9/73.

Unit with equipment to choice Selection and ordering data

Item	Number of command points	Moulded plastic enclosure		Weight approx. kg	Packing Unit
		Order No.	Price each		
 Front panel module	4	3SB38 74-4AZ		0.07	1



SIGNUM 3SB3 Enclosed Pushbutton Units and Indicator Lights

Round and Square Program, Equipment to Choice



Order form for ordering
AS-Interface front panel modules

Order form

to Siemens AG, A&D CD GKA LZA
Amberg, Fax: (0 96 21) 80-31 02

Date Purchaser's order reference/order reference I

Supplier's order reference

1. Number of command points

- 4 command points (3SB38 74-4AZ)
positions A, B, C and D

2. Design of actuators

- round, moulded plastic square, moulded plastic round, metal

3. Backing plates

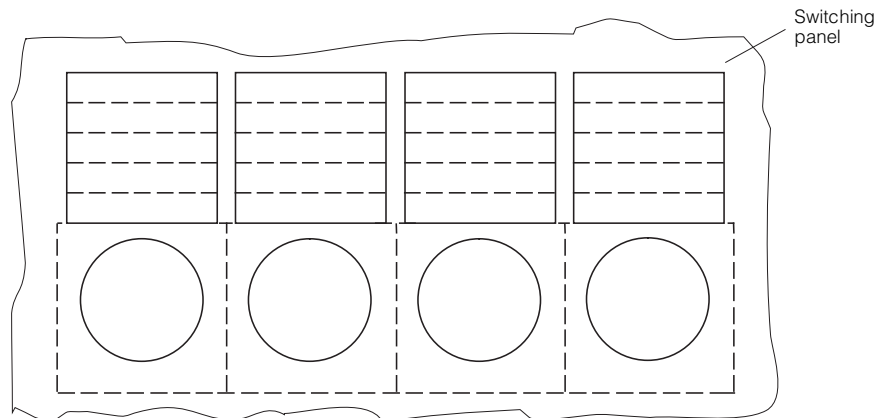
- without with backing plate
incl. bonded inscription plate
12.5 mm × 27 mm with backing plate
incl. bonded inscription plate
27 mm × 27 mm

4. Equipment

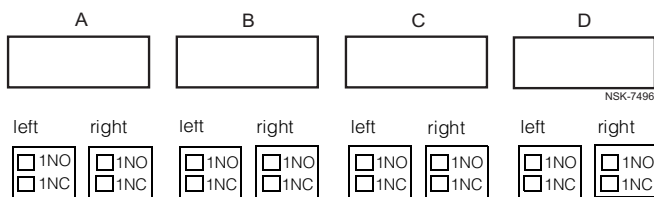
(View from top of front switching panel)

Plates 12.5 mm × 27 mm:
Max. 3 lines with 11 letters each
Size of type: 4 mm (one line)
3.5 mm (two lines)
2.5 mm (three lines)

Plates 27 mm × 27 mm:
Max. 5 lines with 11 letters each
Size of type: 4 mm (one to five lines)



Actuators
(code)



Standard: 1 normally open (1NO),
(unless cross indicates otherwise)

5. Lamps

(Standard: 24 V incandescent lamp, unless cross indicates otherwise)

- 24 V incandescent lamp 30V incandescent lamp super-bright LED
(colour of LED will be same as colour
of operator or indicator)

The SIGNUM 3SB3 design software
simplifies selection and ordering.
Order No. E20001-D0100-P221-V2-6400.

SIGNUM 3SB3 Enclosed Pushbutton Units and Indicator Lights

○ Round and Square Program, 22 mm



SIGNUM 3SB3 enclosed pushbutton units with AS-Interface connection

1
2
3
4
5
6
7
8
9

Enclosures of 2, 3, 4 and 6 command points can be accommodated in a 3RK1 400-0CD00-0AA3 (4I/4O) application module. A maximum of four inputs and four outputs can thus be assigned.

The enclosure with four and six command points can be accommodated in a second module which can thus be extended to have eight inputs.

Addresses are assigned by the master via AS-Interface connections or by an addressing unit via a CD socket.

Mounting

The module is surface-mounted on a motherboard with the contact blocks and lampholders and can be simply connected to the AS-Interface networking system by means of a special threaded joint (insulation piercing method).

An external voltage supply is not necessary due to the lampholders being fitted with a 1 W Wedge-Base lamp.

Methods of connection

- Terminal for shaped AS-interface cable, top or bottom (the cable is led past outside).
- Pg screwed gland for AS-Interface cable, top or bottom (the cable is led into the inside).
- Conventional Pg screwed gland for round cables, top or bottom (the cable is led into the inside and connected to a screw-type terminal).

AS-Interface enclosure with emergency stop

For reasons of safety, the EMERGENCY STOP circuit must consist of conventional wiring. scanning is, however, possible via the interface.

As a consequence of the shortened printed-circuit board, the enclosure with four command points can be accommodated in a maximum of one application module.

The EMERGENCY STOP is connected from below via an additional cable gland or via a normal Pg cable gland. A 4-wire round cable for the AS interface signal and the EMERGENCY STOP circuit can be brought in through these glands.

If the EMERGENCY STOP is scanned via the AS-Interface, two NC contacts (EMERGENCY STOP circuit) can be fitted to the base of the enclosure, without scanning there are three contacts; one NC contact is standard.

Free inputs and outputs

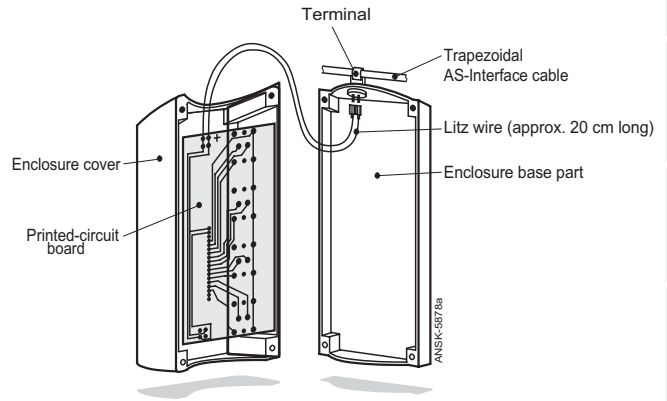
If inputs or outputs in an enclosure are not used, they can be brought out via an additional M12 socket on the top or bottom of the enclosure.

The pin assignment of the M12 socket must be specified in the order attachment.

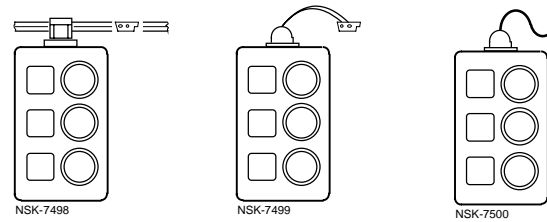
Example

Enclosure with three illuminated pushbuttons.

I1 ... I3 and O1 ... O3 are used in the enclosure, I4 and O4 are brought out via an M12 socket.



Methods of connection



Terminal for AS-Interface cable

- AS-Interface cable is led past outside

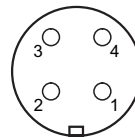
Pg screwed gland for AS-Interface cable

- AS-Interface cable is led in

Pg screwed gland for round cable

- Round cable is led in

Example



Pin 1:	+ 24 V
Pin 2:	A4
Pin 3:	0 V
Pin 4:	E4

SIGNUM 3SB3 Enclosed Pushbutton Units and Indicator Lights

○ Round Program, 22 mm



Enclosed SIGNUM pushbutton units with AS-Interface connection


Units with standard equipment

With 2 to 3 command points, vertical mounting, with moulded-plastic front rings.

The equipment consists of contact blocks, lampholders with Wedge-Base-lamps for use on printed-circuit boards,

printed-circuit board 4I/4O, application module and terminal for AS-Interface cable.



Equipment (A, B, C = identification letters of command points) Actuators/light indicators	Degree of protection	Number of command points	Order No.	Price	Weight approx kg	Packing Unit
 Cable entry at top						
B = Pushbutton unit green, inscription plate "I" A = Pushbutton unit red, inscription plate "O"	IP 65	2	3SB38 02-4DA		0.23	1
B = Pushbutton unit white, inscription plate "I" A = Pushbutton unit black, inscription plate "O"	IP 65	2	3SB38 02-4DB		0.23	1
C = Indicator light clear, inscription plate without inscription B = Pushbutton unit green, inscription plate "I" A = Pushbutton unit red, inscription plate "O"	IP 65	3	3SB38 03-4DA		0.35	1
C = Indicator light clear, inscription plate without inscription B = Pushbutton unit white, inscription plate "I" A = Pushbutton unit black, inscription plate "O"	IP 65	3	3SB38 03-4DC		0.35	1
C = Pushbutton unit black, inscription plate "II" B = Pushbutton unit black, inscription plate "I" A = Pushbutton unit red, inscription plate "O"	IP 65	3	3SB38 03-4DB		0.35	1

Units with equipment to choice

With 2, 3, 4 and 6 command points, degree of protection IP 65.

Prices consist of the prices given below for the AS-i housing and the additional prices resulting from the selection of command points.

The prices for the AS-i housings include the following equipment:


- 1 printed circuit board
- 1 4I/4O application module

- 1 connection terminal for the profiled AS-Interface cable
- Selection of the command points is carried out according to pages 9/70 to 9/73.

A command point consists of an operator/indicator with contact blocks(s) and/or lampholder

incl. lamp for use on printed circuit board and with inscription plate (see page 9/58).

Please order using order attachment for AS-Interface enclosures (page 9/69).

Item	Number of command points	Moulded plastic housing Order No.	Price each	Weight approx kg	Packing Unit
 Top cable entry For AS-Interface connection with single-pole contact blocks and lampholders for use on printed-circuit boards	2	3SB38 02-4AZ		0.23	1
	3	3SB38 03-4AZ		0.35	
	4	3SB38 04-4AZ		0.47	
	6 ¹⁾	3SB38 06-4AZ		0.67	



1) If there are more than 4 inputs, a second application module is fitted. Add. price.

SIGNUM 3SB3 Enclosed Pushbutton Units and Indicator Lights

○ Round Program, Equipment to Choice



Order attachment for ordering AS-Interface enclosures

Order form

to Siemens AG, A&D CD GKA LZA
Amberg, Fax: (0 96 21) 80-31 02

Date Purchaser's order reference/order reference I Supplier's order reference

1. Size of enclosure

- 2-way encl. (3SB38 02-4AZ) (Positions A and B)
 3-way encl. (3SB38 03-4AZ) (Positions A, B and C)
 4-way encl. (3SB38 04-4AZ) (Positions A, B, C and D)
 6-way encl. (3SB38 06-4AZ) (Positions A, B, C, D, E and F)

2. EMERGENCY STOP button

(at position "A" only)

- without EMERG. STOP
 with unscanned EMERG. STOP (only with 3, 4 and 6 positions)
 with scanned EMERG. STOP (only with 3, 4 and 6 positions)

3. Yellow backing for EMERGENCY STOP

(fill in only if fitted)

- without yellow strip
 with yellow strip without inscription at position "A"
 with yellow strip with inscription at "A" (inscription to be specified under 4.)

4. Inscription and equipment

Inscription of inscription plates (max. 11 letters, 1 to 3 lines)	Actuators (code, see pages 9/70 to 9/72)	Standard: 1 normally open (1 NO), unless indicated by cross
		LH position RH position
		<input type="checkbox"/> 1 NO <input type="checkbox"/> 1 NO <input type="checkbox"/> 1 NC <input type="checkbox"/> 1 NC
		<input type="checkbox"/> 1 NO <input type="checkbox"/> 1 NO <input type="checkbox"/> 1 NC <input type="checkbox"/> 1 NC
		<input type="checkbox"/> 1 NO <input type="checkbox"/> 1 NO <input type="checkbox"/> 1 NC <input type="checkbox"/> 1 NC
		<input type="checkbox"/> 1 NO <input type="checkbox"/> 1 NO <input type="checkbox"/> 1 NC <input type="checkbox"/> 1 NC
		<input type="checkbox"/> 1 NO <input type="checkbox"/> 1 NO <input type="checkbox"/> 1 NC <input type="checkbox"/> 1 NC
		<input type="checkbox"/> 1 NO <input type="checkbox"/> 1 NO <input type="checkbox"/> 1 NC <input type="checkbox"/> 1 NC

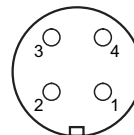
↑ A to F are identification letters inside the upper and lower parts of the enclosure

5. Mounting

- Vertical mounting (inscription plates at the left hand side)
 Horizontal mounting (inscription plates on top)

6. Connection at top or at the right-hand side

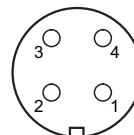
- No cable gland (hole is cut out)
 Terminal for AS-Interface cable (AS-Interface cable is led past outside)
 Pg screwed gland for AS-Interface cable (AS-Interface cable is led in)
 Pg screwed gland for round cable (round cable is led in)
 M12 socket for free input or output



Pin 1: _____
Pin 2: _____
Pin 3: _____
Pin 4: _____

7. Connection at bottom or left-hand side

- No cable gland (hole is cut out)
 Terminal for AS-Interface cable (AS-Interface cable is led past outside)
 Pg screwed gland for AS-Interface cable (AS-Interface cable is led in)
 Pg screwed gland for round cable (round cable is led in)
 M12 socket for free input or output



Pin 1: _____
Pin 2: _____
Pin 3: _____
Pin 4: _____

8. Lamps

- 24 V incandescent lamp
 30 V incandescent lamp
 Super-bright LED (colour of LED corresponds to colour of operator/indicator)

SIGNUM 3SB3 design software simplifies selection and ordering.
Order No. E20001-D0100-P221-V2-6400

SIGNUM 3SB3 Enclosed Pushbutton Units and Indicator Lights Equipment to Choice

Selection and ordering data for equipping
the command points (order form appendix IV/1)

	Codes for colours													Add. price
	black	red	yellow	green	blue	white	clear							
Actuators and indicators¹⁾														
22.5 mm blank plug ²⁾	BV	BK	–	–	–	–	–	–	–	–	–	–	–	–
Pushbutton unit with flat button	D	BK	D	RD	D	YE	D	GN	D	BU	D	WH	D	CL
Illuminated pushbutton unit with flat button	–	–	DL	RD	DL	YE	DL	GN	DL	BU	DL	WH	DL	CL
Pushbutton unit with raised button ²⁾	DH	BK	DH	RD	DH	YE	–	–	DH	BU	–	–	–	–
Illuminated pushbutton unit with raised button ²⁾	–	–	DHL	RD	DHL	YE	DHL	GN	DHL	BU	–	–	DHL	CL
Pushbutton unit with raised front ring	DHF	BK	DHF	RD	DHF	YE	DHF	GN	DHF	BU	DHF	WH	–	–
Pushbutton unit with raised front ring with castellations	DFZ	BK	DFZ	RD	DFZ	YE	DFZ	GN	DFZ	BU	DFZ	WH	–	–
Pushbutton unit with flat button	DS	BK	DS	RD	DS	YE	DS	GN	DS	BU	DS	WH	–	–
Illuminated pushbutton unit with flat button	–	–	DLS	RD	DL	YE	DLS	GN	DLS	BU	DLS	WH	DLS	CL
Mushroom shaped pushbutton unit 30 mm dia. ²⁾	P30	BK	P30	RD	P30	YE	P30	GN	–	–	–	–	–	–
Illuminated mushroom-shaped pushbutton unit 30 mm dia. ²⁾	–	–	–	–	PL30	YE	PL30	GN	–	–	PL30	WH	–	–
Mushroom-shaped pushbutton unit 40 mm dia. ²⁾	P	BK	P	RD	P	YE	P	GN	–	–	–	–	–	–
Illuminated mushroom-shaped pushbutton unit, 40 mm ²⁾	–	–	–	–	PL	YE	PL	GN	–	–	PL	WH	–	–
Pushbutton unit, with raised button, maintained-contact type; ²⁾ latched by pressing and turning to the right unlatching by turning to the left	DHR	BK	DHR	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom-shaped pushbutton unit 40 mm dia., with positive latching function acc. to EN 418; Unlatching by turning to the left	–	–	PRÜ 40	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom-shaped pushbutton unit, 40 mm dia., with positive latching function acc. to EN 418; and RONIS safety lock No. SB30	–	–	PRS 30	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom-shaped pushbutton unit, 40 mm dia., with positive latching function acc. to EN 418; and CES safety lock, No. SSG10	–	–	PRS 10	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom-shaped pushbutton unit, 40 mm dia., with positive latching function acc. to EN 418; and BKS safety lock, No. S1	–	–	PRS S1	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom-shaped pushbutton unit, 40 mm dia., with positive latching function acc. to EN 418; and O.M.R. safety lock, No. 73037	–	–	PRS 73	RD	–	–	–	–	–	–	–	–	–	–
Audible signal unit ²⁾ , IP 40	AMK	BK	–	–	–	–	–	–	–	–	–	–	–	–
Indicator light	–	–	L	RD	L	YE	L	GN	L	BU	L	WH	L	CL
Push-pull-button unit, snap-action type, 30 mm dia. ²⁾	DZ 30	BK	DZ30	RD	–	–	–	–	–	–	–	–	–	–
Illuminated push-pull-button unit snap-action type, 30 mm dia. ²⁾	–	–	DZB30	RD	DZB30	YE	DZB30	GN	DZB30	BU	–	–	DZB30	CL
Push-pull-button unit, snap-action type, 40 mm dia. ²⁾	DZ	BK	DZ	RD	–	–	–	–	–	–	–	–	–	–
Illuminated push-pull-button unit, snap-action type, 40 mm dia. ²⁾	–	–	DZB	RD	DZB	YE	DZB	GN	DZB	BU	–	–	DZB	CL

For special designs see page 9/73.

1) See pages 9/21 to 9/27 for more information about the individual actuators.

2) Cannot be used with front panel module.

SIGNUM 3SB3 Enclosed Pushbutton Units and Indicator Lights

Equipment to Choice

Selection and ordering data for equipping the command points (Order form appendix IV/1)

Code for the colour							Add. price
black	red	yellow	green	blue	white	clear	

Knob¹⁾

Switching sequence O-I maintained contact

Knob	K1BK	K1RD	–	K1GN	–	K1WH	–
Illuminated knob	–	BK1RD	BK1YE	BK1GN	BK1BU	–	BK1CL

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

Knob	K2BK	K2RD	–	K2GN	–	K2WH	–
Illuminated knob	–	BK2RD	BK2YE	BK2GN	BK2BU	–	BK2CL

Switching sequence I-O-II maintained contact

Knob	K4BK	K4RD	–	K4GN	–	K4WH	–
Illuminated knob	–	BK4RD	BK4YE	BK4GN	BK4BU	–	BK4CL

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

Knob	K5BK	K5RD	–	K5GN	–	K5WH	–
Illuminated knob	–	BK5RD	BK5YE	BK5GN	BK5BU	–	BK5CL

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

Knob	K6BK	K6RD	–	K6GN	–	K6WH	–
------	------	------	---	------	---	------	---

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

Knob	K7BK	K7RD	–	K7GN	–	K7WH	–
------	------	------	---	------	---	------	---

Code							Add. price
Key removal position							
O	I	II	O and I	O and II	I and II	I, O and II	

Safety locks¹⁾

Switching sequence O-I maintained contact






RONIS safety lock, flat lock No. SB30	RSB	1A	RSB	1E	–	RSB	1AE	–	–	–
CES safety lock, Lock No. SSG 10	CES	1A	CES	1E	–	CES	1AE	–	–	–
Lock No. LSG 1	CESL	1A	–	–	–	CESL	1AE	–	–	–
IKON safety lock, Lock No. 360012 K1	Z-J	1A	–	–	–	Z-J	1AE	–	–	–
BSK safety lock, 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. safety lock, black, Lock No. 3034	OMR BK	1A	OMR BK	1E	–	OMR BK	1AE	–	–	–

For special designs, see page 9/73.

1) See pages 9/21 to 9/27 for more information about the individual actuators.

SIGNUM 3SB3 Enclosed Pushbutton Units and Indicator Lights Equipment to Choice

Selection and ordering data for equipping
the command points (order form appendix IV/1)

	Code Key removal position							Add. price		
	O	I	II	O and I	O and II	I and II	I, O and II			
Safety locks¹⁾										
Switching sequence O-I  momentary contact (with return from the right)										
RONIS safety lock, flat, Lock No. SB30	RSB	2A	-	-	-	-	-	-		
CES Safety lock, Lock No. SSG 10	CES	2A	-	-	-	-	-	-		
Lock No. LSG 1	CESL	2A	-	-	-	-	-	-		
IKON safety lock, Lock No. 360012 K1	Z-J	2A	-	-	-	-	-	-		
BKS safety lock, Lock No. S1	BKS	2A	-	-	-	-	-	-		
O.M.R. safety lock, black, lock No. 73034	OMR BK	2A	-	-	-	-	-	-		
Switching sequence I-O-II  maintained contact										
RONIS safety lock flat, Lock No. SB30	RSB	4A	RSB	4E	RSB	4D	RSB	4ED	RSB	4EAD
CES safety lock, Lock No. SSG 10	CES	4A	CES	4E	CES	4D	CES	4ED	CES	4EAD
IKON safety lock, Lock No. 360012 K1	Z-J	4A	Z-J	4E	Z-J	4D	Z-J	4ED	Z-J	4EAD
BKS safety lock, Lock No. S1	BKS	4A	BKS	4E	BKS	4D	BKS	4ED	BKS	4EAD
O.M.R. safety lock, black, Lock No. 73034	OMR BK	4A	-	-	-	-	OMR BK	4ED	OMR BK	4EAD
Switching sequence I-O-II  momentary contact (with return from the right and left)										
RONIS safety lock, flat, Lock No. SB30	RSB	5A	-	-	-	-	-	-	-	
CES safety lock, Lock No. SSG 10	CES	5A	-	-	-	-	-	-	-	
IKON safety lock, Lock No. 360012 K1	Z-J	5A	-	-	-	-	-	-	-	
BKS safety lock, Lock No. S1	BKS	5A	-	-	-	-	-	-	-	
O.M.R. safety lock, black, Lock No. 73034	OMR BK	5A	-	-	-	-	-	-	-	
Switching sequence I-O-II  maintained contact to the right, momentary contact to the left (with return from the left)										
RONIS safety lock, flat, Lock No. SB30	RSB	6A	-	RSB	6D	-	RSB	6AD	-	
CES safety lock, Lock No. SSG 10	CES	6A	-	CES	6D	-	CES	6AD	-	
IKON safety lock, Lock No. 360012 K1	Z-J	6A	-	Z-J	6D	-	Z-J	6AD	-	
BKS safety lock, Lock No. S1	BKS	6A	-	BKS	6D	-	BKS	6AD	-	
O.M.R. safety lock, black, Lock No. 73034	OMR BK	6A	-	OMR BK	6D	-	-	-	-	
Switching sequence I-O-II  maintained contact to the left, momentary contact to the right (with return from the right)										
RONIS safety lock, flat, Lock No. SB30	RSB	7A	RSB	7E	-	RSB	7AE	-	-	
CES safety lock, Lock No. SSG 10	CES	7A	CES	7E	-	CES	7AE	-	-	
IKON safety lock, Lock No. 360012 K1	Z-J	7A	Z-J	7E	-	Z-J	7AE	-	-	
BKS safety lock, Lock No. S1	BKS	7A	BKS	7E	-	BKS	7AE	-	-	
O.M.R.-safety lock, black, Lock No. 73034	OMR BK	7A	OMR BK	7E	-	-	-	-	-	

For special designs, see page 9/73.

1) See pages 9/21 to 9/27 for more information about
the individual actuators.

SIGNUM 3SB3 Enclosed Pushbutton Units and Indicator Lights

Equipment to Choice

Selection and ordering data for equipping the command points (Order form appendix IV/2)

Item	Code	Add. price
Contact blocks, lampholders and voltage reducers		
Code for actuators with 2 switching positions	Normally open Normally closed	S Ö
BA 9s lampholder without lamp		BA 9 s
BA 9s lampholder with lamp, see page 9/54 for lamps, enter Order No. under IV/3 (remarks)		BA 9s L
BA 9s lampholder + voltage reducer (operating voltage 230 V AC) for use with a 130 V lamp + lamp		BA 9s VL
BA 9s lampholder + audible signal transducer		BA 9s S
Holder for 3 snap-on elements with front plate fixing		
Holder with pressure plates for knob and lock for operating the middle contact block, with front plate fixing		
Pressure plate for knob and lock for operating the middle contact block, with base fixing		
Looping terminal	black blue green/yellow	Sk BK Sk BU Sk GNYE
M12 socket (AS interface)		

Number and type of contact blocks	in position I		in position II		Code	Add. price
	Actuated	Identification of contacts	Actuated	Identification of contacts		
Codes for actuators with 3 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 ¹⁾	2 NO	23/24 and 33/34 ¹⁾	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 ¹⁾	1 NC + 1 NO	21/22 and 33/34 ¹⁾	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 ¹⁾	2 NC	21/22 and 31/32 ¹⁾	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 ¹⁾	2 NC	21/22 and 31/32 ¹⁾	16

Selection and ordering data for equipping the command points (Order form appendix IV/4)

Inscription	Add. price
Inscription plates (included in scope of supply of enclosed pushbutton units)	
Inscription according to table on page 9/57	
Special inscription	Laser-printed inscription
Without inscription	

Special designs

	Add. price
3SB38 enclosed pushbutton	
Fitting a yellow backing plate	
	without inscription with inscription
Enclosure with yellow cover ²⁾	

1) This contact block is actuated in positions I and II.

2) Only possible for single point enclosed pushbutton units.