


Metal—Momentary Non-Illuminated Pushbuttons


Ordering Information

- ▶ Accessories see pages 516–521.
- ▶ Enclosures see page 523.
- ▶ Dimensions see pages 529–533.


Complete Pushbutton Units

 Pushbutton Unit with Flush Button	Color	Contacts	Flush	Price \$	Extended	Price \$
	black	1 NO	3SB3602-0AA11	18.25	3SB3602-0BA11	18.25
	black	1 NC	3SB3603-0AA11	18.25	3SB3603-0BA11	18.25
	red	1 NC	3SB3603-0AB61	18.25	3SB3603-0BB61	18.25
	yellow	1 NO	3SB3602-0AA31	18.25	3SB3602-0BA31	18.25
	green	1 NO	3SB3602-0AB71	18.25	—	—
	blue	1 NO	3SB3602-0AA51	18.25	3SB3602-0BA51	18.25
	white	1 NO	3SB3602-0AA61	18.25	3SB3602-0BA61	18.25
	black	1 NO + 1 NC	3SB3601-0AA11	27.90	3SB3601-0BA11	27.90
	red	1 NO + 1 NC	3SB3601-0AB61	27.90	3SB3601-0BB61	27.90
	yellow	1 NO + 1 NC	3SB3601-0AA31	27.90	3SB3601-0BA31	27.90
	green	1 NO + 1 NC	3SB3601-0AB71	27.90	—	—
	blue	1 NO + 1 NC	3SB3601-0AA51	27.90	3SB3601-0BA51	27.90
	white	1 NO + 1 NC	3SB3601-0AA61	27.90	3SB3601-0BA61	27.90


Pushbutton Actuator with Holder

 Pushbutton with Flush Button	Color	Flush	Price \$	Extended	Price \$	Guarded	Price \$
	black	3SB3500-0AA11	8.60	3SB3500-0BA11	8.60	3SB3500-0AA12	15.40
	red	3SB3500-0AB61	8.60	3SB3500-0BB61	8.60	3SB3500-0AB62	15.40
	yellow	3SB3500-0AA31	8.60	3SB3500-0BA31	8.60	3SB3500-0AA32	15.40
	green	3SB3500-0AB71	8.60	—	—	3SB3500-0AB72	15.40
	blue	3SB3500-0AA51	8.60	3SB3500-0BA51	8.60	3SB3500-0AA52	15.40
	white	3SB3500-0AA61	8.60	3SB3500-0BA61	8.60	3SB3500-0AA62	15.40

Mushroom Actuator with Holder

 Mushroom-shaped Pushbutton – 40 mm Dia.	Color	30 mm Mushroom	Price \$	40 mm Mushroom	Price \$	60 mm Mushroom	Price \$
	black	3SB3500-1DA11	16.70	3SB3500-1GA11	16.70	3SB3500-1QA11	21.00
	red	3SB3500-1DB61	16.70	3SB3500-1GB61	16.70	3SB3500-1QB61	21.00
	yellow	3SB3500-1DA31	16.70	3SB3500-1GA31	16.70	3SB3500-1QA31	21.00
	green	3SB3500-1DB71	16.70	3SB3500-1GB71	16.70	3SB3500-1QB71	21.00

Pushbutton Actuator with Laser Marked Legends and Holder^①

 Flush Pushbutton with Laser Marking	Legend	Color/Description	Catalog No	Price \$
	DOWN	Black/White Text - Flush	3SB3500-0AA11-ZEE	10.90
	FORWARD	Black/White Text - Flush	3SB3500-0AA11-ZEF	10.90
	OFF	Red/Black Text - Extended	3SB3500-0BB61-ZEC	10.90
	ON	Green/Black Text - Flush	3SB3500-0AB71-ZEB	10.90
	RESET	Blue/Black Text - Flush	3SB3500-0AA51-ZEM	10.90
	REVERSE	Black/White Text - Flush	3SB3500-0AA11-ZEG	10.90
	START	Green/Black Text - Flush	3SB3500-0AB71-ZEL	10.90
	STOP	Red/Black Text - Extended	3SB3500-0BB61-ZEK	10.90
	UP	Black/White Text - Flush	3SB3500-0AA11-ZED	10.90

^①See page 528 for custom laser marked devices.

Description

SIRIUS 3S is a new control device program for front panel mounting and rear wire connection.

SIRIUS 3S is a modern industrial design with a very flat construction and can be installed rapidly by a single person.

A modular inscription system especially designed for the SIRIUS 3S devices makes it possible for large and easily legible labels.

Standards and Specifications

UL/CUL E44 653

CSA

DIN VDE 0660 and IEC 947-5-1.

Design

SIRIUS 3S is offered with either a plastic or metal composition.

The plastic version has an IP66 rating as well as UL Type 4X. They are very low profile giving a flat appearance to the operating panel.

The metal version has an increased level of protection with an IP67 rating and the UL Type 4X as well. The die cast housing of the metal style provides long lasting durability.

Inscriptions

Custom laser marking on the actuator is available.

Construction

A command point consists of an operating element with a front ring or lens assembly, a holder for mounting and the contact block and/or lampholder.

Two contact blocks may be mounted directly to the back of any operator.

When three contact blocks or one lampholder and contact blocks are required, a contact block carrier must be added to the operating element.

A carrier with pushers is required for operating a middle contact block of a selector switch.

Complete units are offered for the most commonly used applications.

Gear holder

The gear holder is reversible and can be used with panel thicknesses of 1 to 4 mm, or 3 to 6 mm. A holder is provided with the device, ready to use with a panel thickness of 1 to 4 mm. Align the markings on the gear holder with the

(▲ 1 to 4 mm ▲) pointing toward the back of the panel. The tightening screw is located opposite the 1 to 4 marking.

For panels with a thickness of 3-6mm, the holder must be turned so the other markings (▲ 3 to 6 mm ▲) point towards the back of the panel. In this case the tightening screw must be turned counter-clockwise fully to its stop before assembling the device.

A provision for grounding has been included in the design of the metal holder. A grounding screw accessory can be used when the operator is mounted in a non-conductive panel.

Contact blocks and lampholders

The contact blocks are fitted with double bridge operating contacts. This ensures a high switching reliability even with small voltages and currents of 5V/1 mA and above. They are suitable for use in electronic systems as well as conventional electrical controls.

The switch contacts of the NC contact are positively driven.

A lampholder for lamp with a BA 9s (screw connection) and a W2 x 4.6 d (solder connection) are available for the illuminated pushbutton units and indicator lights in addition to the contact blocks.

Contact blocks and lampholders have the terminal designations in accordance with EN 50 013.

Mounting

SIRIUS 3S devices are easily and rapidly installed:

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

Connecting method

- Screw connections (standard)
- Cage clamp connections (optional)
- Solder connections (Solder pins 0.8 mm x 0.8 mm) (optional).

The 3SB3 command devices have screw connections. They feature open terminals, screws that cannot be lost,

funnel-shaped wiring openings and screwdriver openings that make it possible to use motorized screwdrivers.

Communication-capable SIRIUS 3S command devices

SIRIUS 3SB3 command devices can be connected to the Actuator-Sensor Interface (AS-Interface®) networking system by means of the AS-Interface® application module for mounting on printed-circuit boards.

The illuminated command devices are powered via the AS-Interface® cable.

The following connections to AS-Interface® are available:

- AS-Interface® user module for printed-circuit board
- Individual AS-Interface® connection
- AS-Interface® front panel module
- AS-Interface® stations

Communication with SIRIUS 3S via PROFIBUS-DP is also possible.



Flush Pushbutton (Plastic)



Flush Pushbutton (Metal)

Technical data according to DIN VDE 0660, IEC 947-5-1 and EN 418

Technical Data							
Rated insulation voltage U_i	Screw connection	400V					
	Solder connection	250V					
Pollution degree acc. to DIN VDE 110		Class 3					
Conventional free-air thermal current I_{th}		10 A					
Rated operational voltage U_e and the related rated operational current I_e	AC 50 to 60 Hz				DC		
	U_e	$I_e/AC-12$	$I_e/AC-15$		U_e	$I_e/DC-12$	$I_e/DC-13$
	Screw/ Solder connection V	A	A	Solder connection A	V	Screw/ Solder connection A	Screw/ Solder connection A
	24	10	6	4	24	10	3
	48	10	6	4	48	5	1.5
	120	10	6	4	120	2.5	0.7
	240	10	6	4	240	1	0.3
	400	10	3	2			
Ⓢ - and Ⓛ -data							
Rated voltage		Contact block AC 300 V					
Indicator light		AC 125 V; 2.5 W; BA 9s					
Continuous current		60V AC; 1W, Wedge-base W2 x 4.6 d					
Switching capacity		10 A					
		A 300; R 300; A600 same polarity					
Contact stability		5V/1 mA					
Test voltage/test current							
Short-circuit protection (Without any welding according to DIN VDE 0660, Part 200)							
DIAZED fuse links utilization category gL/gG		10 A TDz, 16 A Dz					
Miniature circuit-breaker with C characteristic to DIN VDE 0641		10 A					
Mechanical endurance							
Non-illuminated Pushbutton units and contact blocks		10 × 10 ⁶ operating cycles					
Actuators, rotary or latching		3 × 10 ⁶ operating cycles					
Illuminated pushbutton units		3 × 10 ⁶ operating cycles					
Electrical endurance							
with AC-15 duty		10 × 10 ⁶ operating cycles					
with duty DC-12 or 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. General information data is not possible.					
Ambient temperature		−25 to +60 °C					
Operating frequency		1000 operating cycles per hour					
Degree of protection acc. to IEC 60 529 DIN VDE 0740		IP 66, Type 1, 3, 4, 4X, 12 IP 67, Type 1, 3, 4, 4X, 12 IP 65, Type 1, 3, 4, 4X, 12 IP 40 IP 20					
		actuator - metal enclosures - plastic switching compartments of the switching elements behind the front panel switching elements (connections) and lamp holders (connections and switching compartments) behind the front panel					
Lampholder							
		for lamps with BA 9s base, glow, incandescent and LED lamps					
		for lamps with Wedge-base W2 × 4.6 d, glow and LED lamps					
Conductor sizes							
Screw connection:		2 × 0.5 to 1.5 mm ²					
finely stranded with end sleeves		2 × 1 to 2.5 mm ²					
solid		2 × 0.5 to 0.75 mm ²					
solid with end sleeves acc. to DIN 46 228		2 × 14AWG to 18AWG					
solid or stranded		Solder pins 0.8 × 0.8 mm					
Solder connection							
Tightening torque of the screw of the holder		max. 1 Nm					
Tightening torque of the terminal screws		1 to 1.2 Nm					
Terminal designation		in acc. to DIN EN 50 013: Sequence number on the holder. Function numbers on the contact block of the snap-on label					
Device designation							
Touch protection (screw connection)		finger-proof according to VBG 4 resp. DIN VDE 0106					
Shock resistance according to IEC 60 068, Part 2-27		≤ 50 g devices without incandescent lamps ≤ 30 g devices with incandescent lamps					
Shock duration		11 ms					
Shock form		Sine half-wave					