

SIRIUS 3SE5 International Limit Switches

3SE5, plastic enclosures – Enclosure width 31 mm acc. to EN 50047

2 or 3 contacts · Degree of protection IP65 · Cable entry M20 × 1.5¹⁾

Version	Contacts	LEDs	DT	Complete units		PU (UNIT, SET, M)	PS*
				Configurator			
				Order No.	Price per PU		

Complete units²⁾ · Enclosure width 31 mm

Spring rods

Length 142.5 mm, with plastic plunger 50 mm

Snap-action contacts, integrated³⁾ 1 NO + 1 NC —

A

3SE5 232-0HR01

1

1 unit

With M12 connector socket, 4-pole (250 V, 4 A)

Snap-action contacts, integrated³⁾ 1 NO + 1 NC —

B

3SE5 234-0HR01-1AC4

1

1 unit

Twist levers, type A acc. to EN 50047

With metal lever 21 mm and plastic roller 19 mm

Slow-action contacts 1 NO + 1 NC —

A

3SE5 232-0BK21

1

1 unit

Snap-action contacts, integrated³⁾ 1 NO + 1 NC —

A

3SE5 232-0HK21

1

1 unit

Slow-action contacts 1 NO + 2 NC —

B

3SE5 232-0KK21

1

1 unit

Snap-action contacts 1 NO + 2 NC —

B

3SE5 232-0LK21

1

1 unit

With M12 connector socket, 4-pole (250 V, 4 A)

Snap-action contacts, integrated³⁾ 1 NO + 1 NC —

B

3SE5 234-0HK21-1AC4

1

1 unit

With metal lever 35 mm and plastic roller 19 mm

Snap-action contacts, integrated³⁾ 1 NO + 1 NC —

B

3SE5 232-0HK15

1

1 unit

Twist levers, adjustable length

With metal lever with grid hole and plastic roller 19 mm

Snap-action contacts, integrated³⁾ 1 NO + 1 NC —

A

3SE5 232-0HK60

1

1 unit

With metal lever and plastic roller 19 mm

Slow-action contacts 1 NO + 1 NC —

B

3SE5 232-0BK50

1

1 unit

Snap-action contacts, integrated³⁾ 1 NO + 1 NC —

3SE5 232-0HK50

1

1 unit

Snap-action contacts 1 NO + 2 NC —

B

3SE5 232-0LK50

1

1 unit

With M12 connector socket, 4-pole (250 V, 4 A)

Snap-action contacts, integrated³⁾ 1 NO + 1 NC —

B

3SE5 234-0HK50-1AC4

1

1 unit

Rod actuators

With aluminum rod, length 200 mm

Snap-action contacts, integrated³⁾ 1 NO + 1 NC —

B

3SE5 232-0HK80

1

1 unit

With plastic rod, length 200 mm

Snap-action contacts, integrated³⁾ 1 NO + 1 NC —

3SE5 232-0HK82

1

1 unit

With M12 connector socket, 4-pole (250 V, 4 A)

Snap-action contacts, integrated³⁾ 1 NO + 1 NC —

B

3SE5 234-0HK82-1AC4

1

1 unit



Spring rod



Twist lever

Twist lever,
adjustable length

Rod actuator

 For online configurator see www.siemens.com/sirius/configurators.

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

¹⁾ A cable gland with seal must be used with the quick-connect method.²⁾ Popular versions.³⁾ Subsequent replacement of contact blocks is not possible.

Note:

If the device you require is not available as a complete unit, see "Modular System", page 13/13.

SIRIUS ACT 3SU Series

General data

Modules for actuators and indicators

Product versions		Article number															
SIRIUS ACT pushbuttons and indicator lights		3SU1	☐	☐	☐	-	☐	☐	☐	☐	☐	-	☐	☐	☐	☐	☐
Device type	Modules for actuators and indicators	4															
Material (front ring)	Plastic, black	0															
Illumination	Non-illuminated Illuminated	0 1															
Type of mounting	Front plate mounting Base mounting Printed circuit board	1 2 3															
Module type	Contact module LED module LED test module Support terminal AS-Interface module Electronic module for ID key-operated switches	A B C D E G															
Function/voltage	e.g. B = 24 V AC/DC	☐															
Color	e. g. 10 = Black, 20 = Red	☐	☐														
Connection type	Screw terminals Screw terminals + insulation piercing method Spring-type terminals Spring-type terminals + insulation piercing method Socket terminals	1 2 3 4 5															
Module equipment incl. contact material	e. g. A = None B = 1 NO contact, silver C = 1 NC contact, silver	☐															
Marking	None	A															
Ambient condition	Standard ATEX	0 1															
Example		3SU1	4	0	0	-	1	A	A	1	0	-	1	B	A	0	

Holders

Product versions		Article number															
SIRIUS ACT pushbuttons and indicator lights		3SU1	☐	☐	☐	-	☐	☐	☐	☐	☐	-	☐	☐	☐	☐	☐
Device type	Holder	5															
Material (front ring)	Plastic, black Metal, shiny	0 5															
Illumination	Non-illuminated Illuminated	0 1															
Type of mounting	None Front plate mounting	0 1															
Holder type	3x A 4x B	A B															
Function/voltage	None 6 ... 24 V AC/DC	A G															
Color	e.g. 10 = Black, 20 = Red	☐	☐														
Connection type	None Screw terminals	0 1															
Module equipment incl. contact material and slot	e. g. A = None B = 1 NO contact, silver C = 1 NC contact, silver	☐															
Marking	None	A															
Ambient condition	Standard ATEX	0 1															
Example		3SU1	5	0	0	-	0	A	A	1	0	-	0	A	A	0	

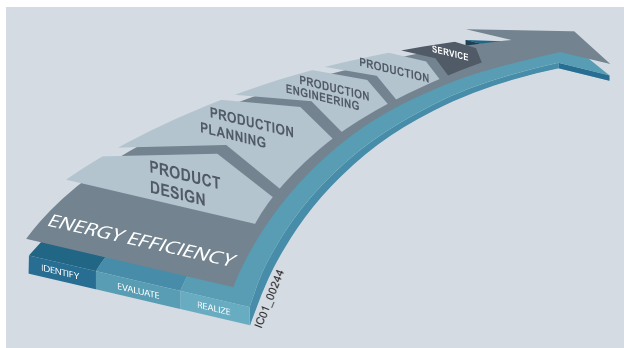
Note:

The Article No. scheme shows an overview of product versions for better understanding of the logic behind the article numbers.

For your orders please use the article numbers quoted in the selection and ordering data.

Benefits

Advantages through energy efficiency



Energy management in industry

Overview of the energy management process

We offer you a unique portfolio for efficient energy management in the industry – a process that is used to optimize the energy requirements. We divide operational energy management into the three phases: identification, evaluation and implementation, and support you with suitable hardware and software solutions in each phase of the process.

The innovative products of the SIRIUS industrial controls portfolio can also make a substantial contribution to a plant's energy efficiency (see www.siemens.com/sirius/energysaving).

SIRIUS ACT pushbuttons and indicator lights contribute to energy efficiency throughout the plant as follows:

- Lower power consumption by means of LED technology
- Long service life

Application

Environmental conditions

The pushbuttons and indicator lights are climate-proof (KTW 24) and suitable for standard industrial applications and operation in marine applications.

Safety EMERGENCY STOP pushbuttons according to ISO 13850

For controls according to IEC 60204-1 or EN 60204-1, the SIRIUS ACT mushroom pushbuttons are suitable for use as safety EMERGENCY STOP pushbuttons.

Safety circuits

IEC 60947-5-1 and EN 60947-5-1 require positive opening. This means that for the purpose of personal safety, the reliable opening of NC contacts in all safety circuits is expressly prescribed for the electrical equipment of machines and is designated according to IEC 60947-5-1 with the symbol (⊖).

Category 4 according to EN ISO 13849-1 can be attained with the EMERGENCY STOP mushroom pushbuttons if the corresponding fail-safe evaluation units are selected and correctly installed, e.g. the 3SK11 safety relays or the 3RK3 Modular Safety System (see page 11/1 onwards) or matching units from the ASIsafe, SIMATIC or SINUMERIK product ranges.

The SIRIUS ACT pushbuttons and indicator lights can be connected to the AS-Interface communication system quickly and safely.

The following solutions are available:

- AS-Interface modules
- AS-Interface module in safety-related version for EMERGENCY STOP mushroom pushbutton
- Ready-fitted AS-Interface enclosures with 1 to 6 command points

IO-Link

The SIRIUS ACT pushbuttons and indicator lights can be connected to IO-Link quickly and safely. The connection is made via a special IO-Link-module.

Actuators and Indicators, Customized Designs

Contact Block Selection Table for Selector Switches, Key-operated Switches, and 3-position push-pull

Selection and Ordering Data

Switch Position (front of switch)	Contact Block Circuit	Contact Block Position ¹⁾	Contact Block Order No.
Left	Right		

Two-Position Selector Switch Contact Block Selection

					
O	X	1 NO	Any Position		3SU1400-1AA10-1BA0
X	O	1 NC	Any Position		3SU1400-1AA10-1CA0
O	X	1 NO/1 NC	Any Position		3SU1400-1AA10-1FA0
O	X	2 NO	Any Position		3SU1400-1AA10-1DA0
X	O	2 NC	Any Position		3SU1400-1AA10-1EA0

Switch Position (front of switch)	Contact Block Circuit	Contact Block Position ¹⁾	Contact Block Order No.
Left	Center	Right	

Three-Position Selector Switch Contact Block Selection

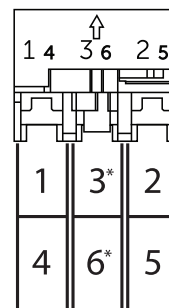
						
X	O	O	1 NO	2 or 3A	5 or 6A	3SU1400-1AA10-1BA0
X	O	X	1 NO	3	6	3SU1400-1AA10-1BA0
O	O	X	1 NO	1 or 3B	4 or 6B	3SU1400-1AA10-1BA0
O	X	X	1 NC	2 or 3A	5 or 6A	3SU1400-1AA10-1CA0
O	X	O	1 NC	3	6	3SU1400-1AA10-1CA0
X	X	O	1 NC	1 or 3B	4 or 6B	3SU1400-1AA10-1CA0
X	O	O	1 NO/1 NC	2 or 3A	--	3SU1400-1AA10-1FA0
X	O	X	1 NO/1 NC	3	--	3SU1400-1AA10-1FA0
O	O	X	1 NO/1 NC	1 or 3B	--	3SU1400-1AA10-1FA0
X	O	O	2 NO	2 or 3A	--	3SU1400-1AA10-1DA0
X	O	X	2 NO	3	--	3SU1400-1AA10-1DA0
O	O	X	2 NO	1 or 3B	--	3SU1400-1AA10-1DA0
O	X	X	2 NC	2 or 3A	--	3SU1400-1AA10-1EA0
O	X	O	2 NC	3	--	3SU1400-1AA10-1EA0
X	X	O	2 NC	1 or 3B	--	3SU1400-1AA10-1EA0

Three-Position Push-Pull Contact Block Selection

Out	Center	In				
X	O	O	1 NO	2 or 3A	5 or 6A	3SU1400-1AA10-1BA0
O	O	X	1 NO	1 or 3B	4 or 6B	3SU1400-1AA10-1BA0
X	X	O	1 NC	1 or 3B	4 or 6B	3SU1400-1AA10-1CA0
O	X	X	1 NC	2 or 3A	5 or 6A	3SU1400-1AA10-1CA0
O	X	O	1 NO/1 NC	2 or 3A	--	3SU1400-1AA10-1FA0
X	X	O	1 NO/1 NC	1 or 3B	--	3SU1400-1AA10-1FA0
O	X	O	2 NC	3	--	3SU1400-1AA10-1FA0

¹⁾ Single-element Contact Blocks are stackable (2 deep). Dual Contact Blocks are not stackable.

In order to attach a Light Module to the actuator, both plungers must be removed and Light Module placed in position #3.



Rear View	Plungers Inserted	Center Module Position Numbers	Replace the asterisks in center position numbers 3* or 6*:
	Both	3 or 6	Contact Blocks Position Number will be (3 or 6) when "Both" plungers are installed.
	Right	3B or 6B	Contact Blocks Position Number will be (3B or 6B) when "Right" plunger only is installed.
	Left	3A or 6A	Contact Blocks Position Number will be (3A or 6A) when "Left" plunger only is installed.
	None	None	Both plungers are removed if Center Module Position 3 is used with LED Light Module

X ----- Contact Closed
O ----- Contact Open
3 or 6 ----- Both Plungers Inserted
3A or 6A --- Left Plunger Inserted
3B or 6B --- Right Plunger Inserted

Modules for Actuators and Indicators

Contact modules

Overview

Contact modules and LED modules

The contact modules are fitted with slow-action contacts (NO contacts or NC 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 electronic systems as well as conventional controls. The contact pieces of the NC contacts are positively driven.

Only LED modules with permanently integrated LEDs are available for illumination.

Contact modules and LED modules bear terminal designations acc. to EN 50013

Mounting the modules

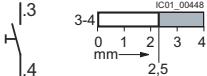
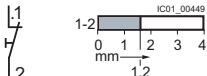
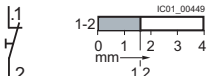
With SIRIUS ACT, the modules are mounted on the holder without any further accessories. Holders in plastic or metal versions are available for mounting three modules.

Connection methods

The modules are available with:

- Screw terminals
- Spring-type terminals or
- Solder pin connection (0.8 mm × 0.8 mm solder pins) for assembly on printed circuit boards

Selection and ordering data

Contact version	Number of		DT	Screw terminals		PU (UNIT, SET, M)	PS*	
	NO contacts	NC contacts						
Order No.								
Contact modules for front plate mounting								
	Silver alloy	1	0		▶	3SU1400-1AA10-1BA0	1	1 unit
		0	1		▶	3SU1400-1AA10-1CA0	1	1 unit
3SU1400-1AA10-1BA0		0	1 with installation monitoring ¹⁾		▶	3SU1400-1AA10-1HA0	1	1 unit
								
3SU1400-1AA10-1HA0								

¹⁾ The contact module has 1 NO internal contact + 1 NC internal contact. The NO contact is connected in series with the NC contact and brought out at terminal 1-2. When the module is snapped onto the holder, the NO contact closes. It opens when the module is detached from the holder again (the NC contact remains closed). The NC contact opens when the EMERGENCY STOP device is actuated (the NO contact remains closed). The contact is closed only when both the NC and NO contacts are closed. Unsuitable for mounting in 3SU18 enclosure.

⊕ Positive opening according to IEC 60947-5-1, Annex K.
Can be used with 3SK11 safety relays or the 3RK3 Modular Safety System;
see page 11/1 onwards.
Certificate:

