

SIRIUS ACT Pushbuttons and Indicator Lights **NEW**

General data

Modules for actuators and indicators

Digit of the Article No.	1st ... 4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th
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SIRIUS ACT pushbuttons and indicator lights	3SU1												
Device type	4 = Modules for actuators and indicators	4											
Material (front ring)	0 = Plastic, black		□										
Illumination	0 = Non-illuminated 1 = Illuminated			□									
Type of mounting	1 = Front plate mounting 2 = Base mounting 3 = Printed circuit board				□								
Module type	A = Contact module B = LED module C = LED test module D = Support terminal E = AS-Interface module G = Electronic module for ID key-operated switches					□							
Function/voltage	e.g. B = 24 V AC/DC						□						
Color	e.g. 10 = Black, 20 = Red							□	□				
Connection type	1 = Screw terminals 2 = Screw terminals + insulation piercing method 3 = Spring-type terminals 4 = Spring-type terminals + insulation piercing method 5 = Socket terminals									□			
Module equipment incl. contact material	e.g. A = None B = 1 NO contact, silver C = 1 NC contact, silver										□		
Marking	A = None											□	
Ambient condition	0 = Standard, 1 = ATEX												□
Example	3SU1	4	0	0	-	1	A	A	1	0	-	1	B

Holders

Digit of the Article No.	1st ... 4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th
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SIRIUS ACT pushbuttons and indicator lights	3SU1												
Device type	5 = Holder	5											
Material (front ring)	0 = Plastic, black 5 = Metal, shiny		□										
Illumination	0 = Non-illuminated 1 = Illuminated			□									
Type of mounting	0 = None 1 = Front plate mounting				□								
Holder type	A = 3x A B = 4x B					□							
Function/voltage	A = None G = 6 ... 24 V AC/DC						□						
Color	e.g. 10 = Black, 20 = Red							□	□				
Connection type	0 = None 1 = Screw terminals									□			
Module equipment incl. contact material and slot	e.g. A = None B = 1 NO contact, silver C = 1 NC contact, silver										□		
Marking	A = None											□	
Ambient condition	0 = Standard, 1 = ATEX												□
Example	3SU1	5	0	0	-	0	A	A	1	0	-	0	A

Note:

The Article No. scheme is presented here merely for information purposes and for better understanding of the logic behind the article numbers.

For your orders, please use the article numbers quoted in the catalog in the Selection and ordering data.

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Enclosures

Digit of the Article No.	1st ... 4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th			
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SIRIUS ACT pushbuttons and indicator lights	3SU1															
Device type	8 = Enclosure		8													
Material (enclosure/front ring)	0 = Plastic, black plastic 5 = Metal, shiny metal		□													
Number of command points	1 = 1 command point ... 6 = 6 command points		□													
Type of enclosure	0 = Configuration 1 = 4-position selector switches and coordinate switches 2 = Palm pushbutton 3 = Two-hand operation console		□													
Equipment	e.g. command point, inscription, module		□ □													
Communication capability	0 = None 1 = AS-i		□													
Ambient condition	0 = Standard 1 = ATEX		□													
Mounting/connection of modules	0 = None 1 = Front plate mounting, screw terminals 2 = Base mounting, screw terminals 3 = Base mounting, spring-type terminals		□													
Cable exit from enclosure	A = None G = Direct entry of AS-i flat cable at top/on right H = AS-i insulation piercing method at top/on right		□													
Design of enclosure top	A = Command point in center B = With recess for labeling plate C = With protective collar D = 4 additional holes (two-hand operation console) E = 8 additional premachined breaking points (two-hand operation console)		□													
Color of enclosure top	1 = Gray 2 = Yellow		□													
Example	3SU1		8	0	1	-	0	A	A	0	0	-	0	A	A	2

Accessories

Digit of the Article No.	1st ... 4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th		
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SIRIUS ACT pushbuttons and indicator lights	3SU1														
Device type	9 = Accessories		9												
Material	0 = Plastic, black 3 = Metal/plastic 5 = Metal, shiny 6 = Metal, matte		□												
Illumination	0 = Non-illuminated 1 = Illuminated		□												
Type of accessory (labels, protection, actuator, enclosure)	e.g. 0AB = Insert label		□ □ □												
Color	e.g. 10 = Black, 20 = Red		□ □												
Marking	e.g. 0AA = None 0AB = ON OAT = EMERGENCY STOP		□ □ □												
Ambient condition	0 = Standard 1 = ATEX		□												
Example	3SU1		9	0	0	0	A	B	7	1	0	A	B	0	

Note:

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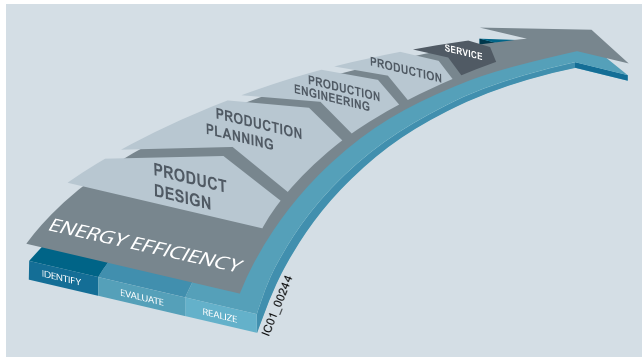
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SIRIUS ACT Pushbuttons and Indicator Lights **NEW**

General 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](http://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.

Technical specifications

Type	3SU1..0-AA 3SU1..0-JA		3SU1..1-AA 3SU1..1-JA	3SU1..0-AB 3SU1..0-BB 3SU1..0-CB 3SU1..0-DB 3SU1..0-JB	3SU1..1-AB 3SU1..1-BB 3SU1..1-JB
Product version	Pushbuttons				
Operating principle of the actuating element	Latching			Momentary contact	
Optional expansion of product by light source	No	Yes	No	Yes	
Mechanical endurance (operating cycles) typical	500 000			10 000 000	3 000 000
Switching frequency maximum	1/h	1 800		3 600	
Shock resistance acc. to IEC 60068-2-27	Half-sine wave 50 g / 11 ms				
Vibration resistance acc. to IEC 60068-2-6	10 ... 500 Hz: 5 g				
IP degree of protection	IP66, IP67, IP69 (IP69K)				
Environmental category during operation acc. to IEC 60721	3K6, 3C3, 3S2, 3M6				
Ambient temperature					
• During operation	°C	-25 ... +70			
• During storage	°C	-40 ... +80			

Type	3SU1.00-AA 3SU1.00-BA 3SU1.00-CA 3SU1.30-AA 3SU1.30-BA 3SU1.50-AA 3SU1.50-BA 3SU1.50-CA	3SU1.50-EA	3SU1.01-AA 3SU1.01-BA 3SU1.51-AA 3SU1.51-BA 3SU1.51-CA	3SU1.00-AD 3SU1.00-BD 3SU1.00-CD 3SU1.30-AD 3SU1.30-BD 3SU1.50-AD 3SU1.50-BD 3SU1.50-CD	3SU1.50-ED	3SU1.01-AD 3SU1.01-BD 3SU1.31-AD 3SU1.31-BD
Product version	Mushroom pushbuttons					
Operating principle of the actuating element	Latching			Momentary contact		
Optional expansion of product by light source	No		Yes	No		Yes
Mechanical endurance (operating cycles) typical	500 000	300 000	500 000	10 000 000	300 000	3 000 000
Switching frequency maximum 1/h	1 800			3 600	1 800	3 600
Shock resistance acc. to IEC 60068-2-27	Half-sine wave 50 g / 11 ms					
Vibration resistance acc. to IEC 60068-2-6	10 ... 500 Hz: 5 g					
IP degree of protection	IP66, IP67, IP69 (IP69K)					
Environmental category during operation acc. to IEC 60721	3K6, 3C3, 3S2, 3M6					
Ambient temperature						
• During operation	°C	-25 ... +70				
• During storage	°C	-40 ... +80				

Type	3SU1...-J 3SU1...-H 3SU1...-G
Product version	EMERGENCY STOP mushroom pushbuttons
Mechanical endurance (operating cycles) typical	300 000
Switching frequency maximum 1/h	600
Shock resistance acc. to IEC 60068-2-27	Half-sine wave 50 g / 11 ms
Vibration resistance acc. to IEC 60068-2-6	10 ... 500 Hz: 5 g
IP degree of protection	IP66, IP67, IP69 (IP69K)
Climate class during operation acc. to EN 60721	3K6, 3C3, 3S2, 3M6
Ambient temperature	
• During operation	°C -25 ... 70
• During storage	°C -40 ... 80

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General data

Type	3SU1...-2B 3SU1...-2C	3SU1...-2B 3SU1...-2C 3SU1...-2D 3SU1...-2E	3SU1...-4B 3SU1...-4C 3SU1...-4D 3SU1...-4F 3SU1...-4G 3SU1...-4H 3SU1...-4J 3SU1...-4L 3SU1...-5B 3SU1...-5H 3SU1...-5P 3SU1...-5Q 3SU1...-5R 3SU1...-5S 3SU1...-5T 3SU1...-5X	3SU1...-4B 3SU1...-4C 3SU1...-4D 3SU1...-4F 3SU1...-4G 3SU1...-4H 3SU1...-4J 3SU1...-4L 3SU1...-5B 3SU1...-5H 3SU1...-5K 3SU1...-5L 3SU1...-5P 3SU1...-5Q 3SU1...-5R 3SU1...-5S 3SU1...-5T 3SU1...-5X
Product version	Selector switches		Key-operated switches	
Mechanical endurance (operating cycles) typical	1 000 000	300 000	1 000 000	300 000
Switching frequency maximum	1/h	1 800 1/h		
Shock resistance acc. to IEC 60068-2-27	Half-sine wave 50 g / 11 ms			
Vibration resistance acc. to IEC 60068-2-6	10 ... 500 Hz: 5 g			
IP degree of protection	IP66, IP67, IP69 (IP69K)			
Ambient temperature				
• During operation	°C	-25 ... +70		
• During storage	°C	-40 ... +80		

Type	3SU1400-.....-1	3SU1400-.....-3	3SU1400-.....-5
Product version	Contact modules		
Insulation voltage	V	500	
Rated value			
Pollution degree		3	
Impulse withstand voltage	kV	6	
Rated value			
Operational voltage type		AC/DC	
Operational voltage			
• At AC			
- Rated value	V	5 ... 500	
• At DC			
- Rated value	V	5 ... 500	
Thermal current	A	10	
Operational current, rated value			
• At AC-12			
- At 24 V	A	10	
- At 230 V	A	10	
- At 500 V	A	--	
• At AC-15			
- At 24 V	A	6	
- At 230 V	A	6	
- At 400 V	A	3	
- At 500 V	A	1.4	
• At DC-12			
- At 24 V	A	10	
- At 48 V	A	5	
- At 110 V	A	2.5	
- At 230 V	A	1	
- At 400 V	A	0.3	
- At 500 V	A	0.3	
• At DC-13			
- At 24 V	A	3	
- At 48 V	A	1.5	
- At 110 V	A	0.7	
- At 230 V	A	0.3	
- At 400 V	A	0.1	
- At 500 V	A	0.1	
Contact reliability		One contact failure per 100 million (17 V, 5 mA), one contact failure per 10 million (5 V, 1 mA)	
Mechanical endurance (operating cycles) typical		10 000 000	
Switching frequency maximum	1/s	3600	

NEW SIRIUS ACT Pushbuttons and Indicator Lights

General data

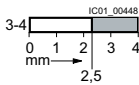
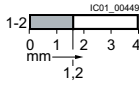
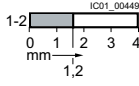
Type		3SU1400-.....-1	3SU1400-.....-3	3SU1400-.....-5
Product version		Contact modules		
Fuse link version required for short-circuit protection of the auxiliary switch with type of coordination 1		gG / Dz 10 A, quick-response / Dz 10 A		
Continuous current of miniature circuit breaker C characteristic	A	10		
Vibration resistance acc. to IEC 60068-2-6		10 ... 500 Hz: 5 g		
Shock resistance acc. to IEC 60068-2-27		Half-sine wave 50 g / 11 ms		
Climate class during operation acc. to EN 60721		3K6, 3C3, 3S2, 3M6		
Ambient temperature				
• During operation	°C	-25 ... +70		
• During storage	°C	-40 ... +80		
IP degree of protection				
• of the enclosure		IP40		
• of the terminal		IP20		
Type of electrical connection		Screw terminals 	Spring-type terminals 	Socket terminals (THT) 
Type of connectable conductor cross-sections				
• Solid with end sleeve		2 x (0.5 ... 0.75 mm ²)	--	--
• Solid without end sleeve		2 x (1.0 ... 1.5 mm ²)	2 x (0.25 ... 1.5 mm ²)	--
• Finely stranded with end sleeve		2 x (0.5 ... 1.5 mm ²)	2 x (0.25 ... 0.75 mm ²)	--
• Finely stranded without end sleeve		2 x (1.0 ... 1.5 mm ²)	2 x (0.25 ... 1.5 mm ²)	--
• For AWG cables for auxiliary contacts		2 x (18 ... 14)	2 x (24 ... 16)	--
Tightening torque				
• For screw terminals	Nm	0.8 ... 0.9	--	--
Type		3SU1401-.....-1	3SU1401-.....-3	3SU1401-.....-5
Product version		LED module		
Light source integrated in product		Yes		
Type of light source		LED		
Insulation voltage	V	320		
Rated value				
Pollution degree		3		
Impulse withstand voltage	kV	4		
Rated value				
Operating time typical	h	100 000		
Vibration resistance acc. to IEC 60068-2-6		10 ... 500 Hz: 5 g		
Shock resistance acc. to IEC 60068-2-27		Half-sine wave 50 g / 11 ms		
Climate class during operation acc. to EN 60721		3K6, 3C3, 3S2, 3M6		
Ambient temperature				
• During operation	°C	-25 ... +70		
• During storage	°C	-40 ... +80		
IP degree of protection of the terminal		IP20		
Type of electrical connection		Screw terminals 	Spring-type terminals 	Socket terminals (THT) 

Further information in the Manual, see
<https://support.industry.siemens.com/cs/ww/en/view/107542462>

NEW

SIRIUS ACT Pushbuttons and Indicator Lights
Modules for Actuators and Indicators

Contact modules

Contact version	Number of NO contacts	Number of NC contacts		DT	Spring-type terminals 	PU (UNIT, SET, M)	PS*	PG		
Contact modules for front plate mounting					Article No.	Price per PU				
 3SU1400-1AA10-3BA0	Silver alloy	1	0			3SU1400-1AA10-3BA0	1	1 unit	41J	
		0	1				3SU1400-1AA10-3CA0	1	1 unit	41J
		0	1 with installation monitoring ¹⁾				3SU1400-1AA10-3HA0	1	1 unit	41J

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:

