General data

Article No. scheme

Device types

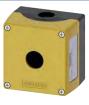














3SU10	3SU11	3SU12	3SU14	3SU15	3SU18	3SU19
Device types						
Actuating and signaling elements	Complete units	Compact units	Modules for actuators and indicators	Holders with module	Enclosures	Accessories

Actuating and signaling elements

Digit of the Article No.		1 st - 4 th	5 th	6 th	7 th		8 th	9 th	10 th	11 th	12 th		13 th	14 th	15 th	16 th
						-						-				
SIRIUS ACT pushbuttons and	indicator lights	3SU1														
Device type	0 = actuating and signaling elements		0													
Material (front ring)	0 = plastic, black 3 = metal, matte (front ring)/plastic, black (collar) 5 = metal, shiny 6 = metal, matte															
Illumination	0 = non-illuminated 1 = illuminated/transparent 2 = illuminated/non-illuminated															
Type of actuator/indicator	0 = pushbutton 1 = mushroom pushbutton/ EMERGENCY STOP mushroom pushbutton/sensor switch 2 = selector switch 3 = twin pushbutton, toggle switch 4/5 = key-operated switch 6 = indicator light/acoustic signaling device 7 = coordinate switch															
Design of the actuator/lock	e.g. A = flat															
Function	e.g. B = momentary contact															
Color/key removal position	e.g. 10 = black, 20 = red															
Connection method	0 = none															
Module/holder equipment	e.g. A = without module, without holder Y = without module, with holder															
Marking	e.g. A = none, C = "I", D = "O", R = "R"															
Ambient condition	0 = standard, 1 = ATEX															
Example		3SU1	0	0	0	_	0	Α	В	1	0	_	0	Α	Α	0

Note:

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

General data

Complete units

Digit of the Article No.		1 st - 4 th	5 th	6 th	7 th		8 th	9 th	10 th	11 th	12 th		13 th	14 th	15 th	16 th
						_						_				
SIRIUS ACT pushbuttons and	indicator lights	3SU1														
Device type	1 = complete units		1													
Material (front ring)	0 = plastic, black 3 = metal, matte (front ring) plastic, black (collar) 5 = metal, shiny 6 = metal, matte															
Illumination	0 = non-illuminated 1 - 8 = illuminated (with/without LED, various voltages)															
Type of actuator/indicator	0 = pushbutton 1 = mushroom pushbutton/ EMERGENCY STOP mushroom pushbutton/sensor switch 2 = selector switch 3 = twin pushbutton, toggle switch 4/5 = key-operated switch 6 = indicator light/acoustic signaling device 7 = coordinate switch															
Design of the actuator/lock	e.g. A = flat															
Function	e.g. B = momentary contact															
Color/key removal position	e.g. 10 = black, 20 = red															
Connection method	1 = screw terminals 3 = spring-type terminals															
Module/holder equipment incl. contact material	e.g. A = without module, with holder B = 1 NO contact with holder C = 1 NC contact with holder															
Marking	e.g. A = none, C = "I", D = "O", R = "R"															
Ambient condition	0 = standard, 1 = ATEX															
Example		3SU1	1	0	0	_	0	Α	Α	1	0	_	1	В	Α	0

Compact units

Digit of the Article No.		1 st - 4 th	5 th	6 th	7 th		8 th	9 th	10 th	11 th	12 th		13 th	14 th	15 th	16 th
						-						-				
SIRIUS ACT pushbuttons and	indicator lights	3SU1														
Device type	2 = compact units		2													
Material (front ring)	0 = plastic, black 3 = metal, matte (front ring) plastic, black (collar) 5 = metal, shiny 6 = metal, matte															
Illumination	0 = non illuminated 1 = illuminated/non-illuminated															
Type of actuator/indicator	0 = pushbutton 1 = sensor switch 2 = potentiometer 6 = indicator light/acoustic signaling device															
Design of the actuator/lock	e.g. A = flat															
Function (voltage/resistance)	e.g. B = 24 V AC/DC															
Color	e.g. 10 = black, 20 = red															
Connection method	0 = none 1 = screw terminals 2 = M12 connection, 4-pole 3 = spring-type terminals															
Module/holder equipment incl. contact material	e.g. A = without module, without holder B = 1 NO contact with holder C = 1 NC contact with holder															
Marking:	e.g. A = none															
Ambient condition	0 = standard, 1 = ATEX															
Example		3SU1	2	0	1	-	6	Α	В	0	0	-	1	Α	Α	0

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General data

Modules for actuators and indicators

Digit of the Article No.		1 st - 4 th	5 th	6 th	7 th		8 th	9 th	10th	1 1 th	12 th		12th	14 th	15th	16th
Digit of the Article No.		0000	2	0	П		0	9	10···		12		13···	T	15	16
SIRIUS ACT pushbuttons ar	ad indicator lights	3SU1			<u> </u>							_			<u> </u>	<u> </u>
Device type	4 = modules for actuators and indicators	3301	4													
Material (front ring)	0 = plastic, black															
Illumination	0 = plastic, black 0 = non-illuminated 1 = illuminated			Ц												
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 switch															
Function/voltage	e.g. B = 24 V AC/DC															
Color	e.g. 10 = black, 20 = red															
Connection method	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	Α	Α	1	0	_	1	В	Α	0

Holders

		1 0		- 0	- 11				- 11	- 11	- 11			- 0	- 11	- 11
Digit of the Article No.		1 st - 4 th	5 th	6 th	7 th		8 th	9 th	10 th	11 th	12 th		13 th	14 th	15 th	16 th
						-						-				
SIRIUS ACT pushbuttons and in	ndicator 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 method	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	Α	Α	1	0	_	0	Α	Α	0

Note:

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General data

Enclosures																
Digit of the Article No.		1 st - 4 th	5 th	6 th	7 th		8 th	9 th	10 th	11 th	12 th		13 th	14 th	15 th	16 th
g.,						_						_				
SIRIUS ACT pushbuttons and in	dicator 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 = surface-mounted 1 = 4-position selector and coordinate switch 2 = palm switch 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 = ASi 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	Α	Α	0	0	-	0	Α	A	2
Accessories																
Digit of the Article No.		1 st - 4 th	5 th	6 th	7 th	_	8 th	9 th	10 th	11 th	12 th	_	13 th	14 th	15 th	16 th
SIRIUS ACT pushbuttons and in	dicator lights	3SU1							_						Ī	
Device type	9 = accessories		9													
			_													

Example		3SU1	9	0	0		0	Α	В	7	1		0	Α	В	0
Ambient condition	0 = standard 1 = ATEX															
Marking	e.g. 0AA = none 0AB = ON 0AT = EMERGENCY STOP															
Color	e.g. 10 = black, 20 = red															
Type of accessory (labels, protection, actuator, enclosure)	e.g. 0AB = insert label															
Illumination	0 = non-illuminated 1 = illuminated															
Material	0 = plastic, black 3 = metal/plastic 5 = metal, shiny 6 = metal, matte															
Device type	9 = accessories		9													
SIRIUS ACT pushbuttons and in	ndicator lights	3SU1														
						_						-				
Digit of the Article No.		1 st - 4 th	5 th	6 th	7 th		8 th	9 th	10 th	11 th	12 th		13 th	14 th	15 th	16 th

Note

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General data

Benefits

Highlights of SIRIUS ACT

Design

- Improved look of the system
- · Combination of design and functionality

Easy handling

- Self-explanatory and fast installation
- · One-handed installation
- · Components can be mounted with holder removed
- No special tools required, simple size 2 screwdriver (cross-tip DIN ISO 87641PZD1, flat-head DIN ISO 2380-1 A/B 1x4.5) is sufficient
- Simple geometry for mounting holes

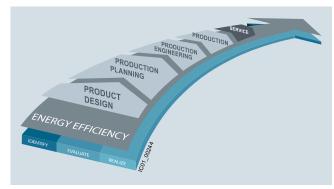
Ruggedness

- Media resistance
- · Suitable for use in extreme environments
- Design stability according to use

Communication

- Connection to the most commonly used communication systems (PROFINET, AS-Interface, IO-Link)
- Can be integrated easily via the TIA Portal

Advantages through energy efficiency



Energy management in industry

Overview of the energy management process

We offer you a unique portfolio for industrial energy management, using an energy management system that helps to optimally define your energy needs. We split up our industrial energy management into three phases – identify, evaluate, and realize – and we support you with the appropriate hardware and software solutions in every process phase.

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.

"Intrinsic safety" type of protection EEx i according to ATEX directive 94/9/EC

The pushbuttons and indicator lights can also be used in hazardous areas. Special versions of the 3SU1400 contact modules and 3SU1401 LED modules (only with screw terminals).

Explosion protection category for dust: II 2D Ex tb IIIC T120°C Db

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

The IEC 60947-5-1 and EN 60947-5-1 standards require positive opening. This means that for the purposes of personal safety, the assured opening of NC contacts is expressly stipulated for the electrical equipment of machines in all safety circuits and marked according to IEC 60947-5-1 with the symbol $(\ensuremath{\Theta})$.

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, the 3RK3 Modular Safety System (see Catalog IC 14, Chapter 13, "Safety Systems") 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 module
- 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.

General data

Technical s	specifications
-------------	----------------

Туре		3SU10AA 3SU10JA	3SU11 3SU11	JA 3	3SU10AB 3SU10BB 3SU10CB 3SU10DB 3SU10JB	3SU11A 3SU11E 3SU11J	BB	I10HC
Product version		Pushbutton						
Operating principle of actuating element	ent	Latching		N	Momentary conta	act		nentary contact
Optional expansion of product by ligh source	t	No	Yes	1	No	Yes	No	<u></u>
Mechanical endurance (operating cyclypical	les)	1 000 000		1	10 000 000	3 000 000	1 00	00 000
Switching frequency maximum	1/h	1 800		3	3 600		1 80	00
Shock resistance for devices without incandescent lamp acc. to IEC 60068-2	2-27	11 ms, 50 g, half-	-sine					
Vibration resistance acc. to IEC 60068-2-6		20 500 Hz: 5 g	1					
IP degree of protection		IP66, IP67, IP69K	; NEMA Typ	e 1, 3, 3R, 4,	4X, 12 ¹⁾			
Climate class in operation acc. to EN 60721		3K6, 3C3, 3S2, 3I	M6					
Ambient temperature								
During operation	°C	-25 +70						
During storage	°C	-40 +80						
Туре		35 35 35 35	SU1.00BA SU1.00CA SU1.30AA SU1.30BA SU1.50AA SU1.50BA SU1.50CA	3SU1.50E <i>A</i>	3SU1.01BA 3SU1.51AA 3SU1.51BA	3SU1.00AD 3SU1.00BD 3SU1.00CD 3SU1.30AD 3SU1.30AD 3SU1.50AD 3SU1.50BD 3SU1.50CD		3SU1.01AD 3SU1.01BD 3SU1.31AD 3SU1.31BD
Product version		Mushroom push	button			3301.3000		
Operating principle of actuating element	ent	Latching				Momentary contact		
Optional expansion of product by ligh source	t	No			Yes	No		Yes
Mechanical endurance (operating cyclypical	les)	500 000		300 000	500 000	10 000 000	300 000	3 000 000
Switching frequency maximum	1/h	3 600 1	800			3 600	1 800	3 600
Shock resistance for devices without incandescent lamp acc. to IEC 60068-2	2-27	11 ms, 50 g, half-	-sine					
Vibration resistance acc. to IEC 60068-2-6		20 500 Hz: 5 g	1					
IP degree of protection		IP66, IP67, IP69K	K; NEMA Typ	e 1, 3, 3R, 4,	4X, 12			
Climate class in operation acc. to EN 60721		3K6, 3C3, 3S2, 3	M6l					
Ambient temperatureDuring operationDuring storage	°C	-25 +70 -40 +80						
Type Product version		3SU1N EMERGENCY ST	3SU1		SSU1J	3SU1H	381	I1G
Mechanical endurance (operating cycletypical	les)	300 000	. St. Illustiff	Join pualibut				
Switching frequency maximum	1/h	600						
Shock resistance for devices without incandescent lamp acc. to IEC 60068-2	· · · · · · · · · · · · · · · · · · ·	11 ms, 50 g, half-	-sine					
Vibration resistance acc. to IEC 60068-2-6		2 500 Hz: 5 <i>g</i>						
IP degree of protection		IP66, IP67, IP69K	; NEMA Typ	e 1, 3, 3R, 4,	4X, 12			
Climate class in operation acc. to EN 60721		3K6, 3C3, 3S2, 3	M6					
Ambient temperature • During operation	°C	-25 70						
During storage	°C	-40 80						

¹⁾ UL pending for illuminated and non-illuminated Twin Pushbutton and illuminated Pushbutton NEMA Type 1, 3, 3R, 4 and 4X

• During storage

General data

Туре		3SU12A	3SU12B 3SU12C 3SU12D 3SU12E	3SU13E	3SU14B 3SU14C 3SU14D 3SU14F 3SU14G 3SU14H 3SU14J 3SU14L	3SU15B 3SU15H 3SU15J 3SU15L 3SU15P 3SU15Q 3SU15G 3SU15S 3SU15T 3SU15T	3SU17A 3SU17B	
Product version		Rotary knob	Selector switch	Toggle switch	Key-operated	d switch	Coordinate switch	
Mechanical endurance (operating cycles) typical		1 000 000					250 000	
Switching frequency maximum	1/h	1 800					3 600	
Shock resistance for devices without incandescent lamp acc. to IEC 60068-2-27		11 ms, 50 g, hal	f-sine					
Vibration resistance acc. to IEC 60068-2-6		10 500 Hz: 5 <i>g</i>						
IP degree of protection		IP66, IP67, IP69I	K; NEMA Type 1	, 3, 3R, 4, 4X, 12	21)			
Ambient temperature								
During operation	°C	-25 +70						
During storage	°C	-40 +80						

Туре		3SU14001 3SU14003 3SU14005
Product version		Contact module
Insulation voltage rated value	V	500
Pollution degree		3
Impulse withstand voltage rated value	kV	6
Operational voltage type		AC/DC
Operational voltage		
• At AC		
- Rated value	V	5 500
• At DC		
- Rated value	V	5 500
Thermal current	Α	10
Operational current, rated value		
• At AC-12		
- At 24 V	Α	10
- At 230 V	Α	10
- At 500 V	Α	10
• At AC-15		
- At 24 V	Α	6
- At 230 V	Α	6
- At 400 V	Α	3
- At 500 V	Α	1.4
• At DC-12		
- At 24 V	Α	10
- At 48 V	Α	5
- At 110 V	Α	2.5
- At 230 V	Α	1
- At 400 V	Α	0.3
- At 500 V	Α	0.2
• At DC-13		
- At 24 V	Α	3
- At 48 V	Α	1.5
- At 110 V	Α	0.7
- At 230 V	Α	0.3
- At 400 V	Α	0.1
- At 500 V	Α	0.07
Contact reliability		One contact failure per 100 million switching operations (17 V, 5 mA), One contact failure per 10 million switching operations (5 V, 1 mA)
Mechanical endurance (operating cycles) typical		10 000 000
Switching frequency maximum	1/s	1

UL pending for plastic with metal matte front ring and 30 mm flat metal matte Key-operated switch NEMA Type 1, 3, 3R, 4, 4X, 12 and 22 mm shiny metal Key-operated switch NEMA Type 1, 4X (indoor use only) and 12.

General data

Type		3SU14001		3SU14003		3SU14005		
Product version		Contact module						
Fuse link version required for short-circuit protection of the auxiliary switch with type of coordination 1		gG / Dz 10 A, quick-response / Dz 16 A						
Continuous current of miniature circuit breaker C characteristic	А	10						
Vibration resistance acc. to IEC 60068-2-6		2 500 Hz: 5 <i>g</i>						
Shock resistance for devices without incandescent lamp acc. to IEC 60068-2-27		11 ms, 50 <i>g</i> , half-sine						
Climate class in 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	(1)	Spring-type terminals	$\stackrel{\circ}{\square}$			
Type of connectable conductor cross-sections								
For auxiliary contacts								
- Solid		2 x (1.0 1.5 mm ²)		2 x (0.25 1.5 mm ²)		0.8 mm x 0.8 mm x 4 mm		
- With end sleeves		2 x (0.5 0.75 mm ²)						
- Finely stranded								
- Without end sleeves		2 x (0.5 0.75 mm ²)		2 x (0.25 1.5 mm ²)				
- With end sleeves		2 x (0.5 1.5 mm ²)		2 x (0.25 0.75 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						

2						
Туре		3SU14011	3SU14	013	3SU14015	
Product version		LED module				
Light source integrated in product		Yes				
Type of light source		LED				
Insulation voltage rated value	V	320				
Pollution degree		3				
Impulse withstand voltage rated value	kV	4				
Operating time typical	h	100 000				
Vibration resistance acc. to IEC 60068-2-6		2 500 Hz: 5 <i>g</i>				
Shock resistance for devices without incandescent lamp acc. to IEC 60068-2-27		11 ms, 50 <i>g</i> , half-sine				
Climate class in 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)	凸

SIRIUS ACT Pushbuttons and Indicator Lights
Actuators and Indicators, 22 mm, Round, Plastic, Black **Compact Units**

Sensor switches / Pushbuttons with extended stroke

	Pushbuttons with e	skienueu si	IORE					
Selection and orderi	ng data							
	Operating principle	Number of NO contacts	Number of NC contacts	Color	DT	M12 connector, 4-pin	PU (UNIT,	PS*
						Order No.	SÉT, M)	
Consor awitches								
Sensor switches	Whether integrated in the two-hand operation console or installed as a door opening contact, the capacitive sensor switch is suitab for many different applications in industrial environments.							
	The switch is actuated by simple contact with the h part of the body (i.e. without the application of pres result, these switches are rugged, extremely durabl highest possible degree of protection (IP69K).			ure). As a				
	Without pressure	1	0	Black	Α	3SU1200-1SK10-2SA0	1	1 unit
3SU1200-1SK10-2SA0								
Selection and orderi	ng data							
	Version			Color	olor DT Order No.		PU	PS*
							(UNIT, SET, M)	
Duobhuttana with aut	dod atvake							
Pushbuttons with extend	Pushbuttons with flat	button		Red	В	3SU1200-0EB20-0AA0	1	1 unit
				Green	В	3SU1200-0EB40-0AA0	1	1 unit
3SU1200-0EB20-0AA0				D: -				
3SU1200-0FB10-0AA0	Pushbuttons with raise	ea bullon		Black	A	3SU1200-0FB10-0AA0	1	1 unit
000 1200 of 210 0,710	Illuminated pushbutto	ns with flat bu	tton	Red	A	3SU1201-0EB20-0AA0	1	1 unit
3SU1201-0EB70-0AA0				Clear	A	3SU1201-0EB70-0AA0	1	1 unit
	Version	Material		Color	DT	Order No.	PU	PS*
							(UNIT, SET, M)	
Accessories								
	Extension plungers For compensation of the distance between the pushbutton and the unlatching button of an overload relay			Black	A	3SU1900-0KG10-0AA0	1	1 unit
3SU1900-0KG10-0AA0								