

# SIRIUS ACT Pushbuttons and Indicator Lights

## General data

### Modules for actuators and indicators

Digit of the Article No.	1 <sup>st</sup> - 4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>	13 <sup>th</sup>	14 <sup>th</sup>	15 <sup>th</sup>	16 <sup>th</sup>		
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<b>SIRIUS ACT pushbuttons and indicator lights</b>	<b>3SU1</b>														
Device type	4 = modules for actuators and indicators		<b>4</b>												
Material (front ring)	0 = plastic, black		<input type="checkbox"/>												
Illumination	0 = non-illuminated 1 = illuminated		<input type="checkbox"/>												
Type of mounting	1 = front plate mounting 2 = base mounting 3 = printed-circuit board		<input type="checkbox"/>												
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		<input type="checkbox"/>												
Function/voltage	e.g. B = 24 V AC/DC		<input type="checkbox"/>												
Color	e.g. 10 = black, 20 = red		<input type="checkbox"/> <input type="checkbox"/>												
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		<input type="checkbox"/>												
Module equipment incl. contact material	e.g. A = none B = 1 NO contact, silver C = 1 NC contact, silver		<input type="checkbox"/>												
Marking	A = none		<input type="checkbox"/>												
Ambient condition	0 = standard, 1 = ATEX		<input type="checkbox"/>												
<b>Example</b>	<b>3SU1</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>-</b>	<b>1</b>	<b>A</b>	<b>A</b>	<b>1</b>	<b>0</b>	<b>-</b>	<b>1</b>	<b>B</b>	<b>A</b>	<b>0</b>

### Holders

Digit of the Article No.	1 <sup>st</sup> - 4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>	13 <sup>th</sup>	14 <sup>th</sup>	15 <sup>th</sup>	16 <sup>th</sup>		
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<b>SIRIUS ACT pushbuttons and indicator lights</b>	<b>3SU1</b>														
Device type	5 = holder		<b>5</b>												
Material (front ring)	0 = plastic, black 5 = metal, shiny		<input type="checkbox"/>												
Illumination	0 = non-illuminated 1 = illuminated		<input type="checkbox"/>												
Type of mounting	0 = none 1 = front plate mounting		<input type="checkbox"/>												
Holder type	A = 3x A B = 4x B		<input type="checkbox"/>												
Function/voltage	A = none G = 6 ... 24 V AC/DC		<input type="checkbox"/>												
Color	e.g. 10 = black, 20 = red		<input type="checkbox"/> <input type="checkbox"/>												
Connection method	0 = none 1 = screw terminals		<input type="checkbox"/>												
Module equipment incl. contact material and slot	e.g. A = none B = 1 NO contact, silver C = 1 NC contact, silver		<input type="checkbox"/>												
Marking	A = none		<input type="checkbox"/>												
Ambient condition	0 = standard, 1 = ATEX		<input type="checkbox"/>												
<b>Example</b>	<b>3SU1</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>-</b>	<b>0</b>	<b>A</b>	<b>A</b>	<b>1</b>	<b>0</b>	<b>-</b>	<b>0</b>	<b>A</b>	<b>A</b>	<b>0</b>

### 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.

### Overview

With AS-Interface enclosures, distributed SIRIUS ACT pushbuttons and indicator lights can be quickly connected to the AS-Interface communication system. Using suitable components you can assemble your own enclosures with integrated AS-Interface or flexibly modify existing enclosures.



Enclosures for AS-Interface

### Enclosures

Color of enclosure top:

- Gray, RAL 7035
- Yellow, RAL 1004, for EMERGENCY STOP

Color of enclosure lower part:

- Black, RAL 9005

### Equipping with AS-Interface slaves

The following slaves are available for connecting the command points:

- Slave in A/B technology with 4 digital inputs and 3 digital outputs (4 DI / 3 DO)
- Slave with 4 digital inputs and 4 digital outputs (4 DI / 4 DO)
- F slave with 2 safe inputs for EMERGENCY STOP mushroom pushbutton (2 F-DI), also with LED
- F slave with 2 safe inputs and one digital output (2 F-DI + 1 DO)

The following table shows the maximum number of slaves possible:

Number of command points	Number of slaves for enclosures without EMERGENCY STOP	Number of slaves for enclosures with EMERGENCY STOP
1	--	1 x F slave 2 F-DI
2	1 x slave 4 DI/4 DO or 4 DI/3 DO	--
3	1 x slave 4 DI/4 DO or 4 DI/3 DO	1 x slave 4 DI/4 DO or 4 DI/3 DO + 1 x F slave
4	2 x slave 4 DI/4 DO or 4 DI/3 DO	2 x slave 4 DI/4 DO or 4 DI/3 DO + 1 x F slave
6	2 x slave 4 DI/4 DO or 4 DI/3 DO	2 x slave 4 DI/4 DO or 4 DI/3 DO + 1 x F slave

### Connection

One set of links is required in each case to connect a slave to contact modules, LED modules, and the connection element.

The connection elements are mounted in the front-end cable glands and are used to connect the AS-Interface or bring unused inputs or outputs out of the enclosure.

For connection to AS-Interface, the following options are available:

- Terminal for shaped AS-Interface cable. The cable is contacted by the insulation piercing method and routed past the enclosure on the outside (possible only with plastic enclosure).
- Cable gland for the shaped AS-Interface cable or round cable. The cable is routed into the enclosure (preferable for metal enclosure).
- Connection using M12 plug.

If less than all inputs/outputs of the installed slaves in an enclosure are used for connecting the commanding devices, free inputs and outputs can be routed on request to the outside through an M12 socket on the top or bottom side of the enclosure.

To supply inputs with power, the S+ connection of the slave must be assigned to the socket, for outputs the OUT- connection must be assigned. Addressing is performed using the AS-Interface connections or the integrated addressing socket. An external power supply is not required.

### Enclosures with standard fittings

Enclosures with standard fittings are available with:

- 1 to 3 command points
- Operational voltage through AS-Interface (approx. 30 V)
- Vertical mounting type
- Plastic enclosures are equipped with plastic actuators and indicators, metal enclosures are equipped with metal actuators and indicators

The enclosures without EMERGENCY STOP each have one module with 4I/3O; the enclosures with EMERGENCY STOP mushroom pushbuttons have a safe AS-Interface slave integrated in the enclosure. Enclosures with EMERGENCY STOP mushroom pushbuttons are fitted with two NC contact modules, which are wired to the safe F slave.

The contact modules and LED modules (with spring-type terminals) of the commanding devices and the AS-Interface slaves are mounted in the base of the enclosure and connected using cables. The plastic enclosures are designed with a connection for the AS-Interface flat cable (the cable is run along the outside of the enclosure). For metal enclosures, the AS-Interface cable is run inside the enclosure.


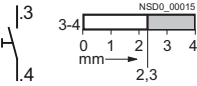
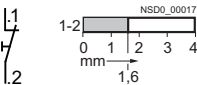

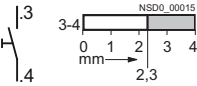
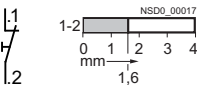

The enclosures with EMERGENCY STOP mushroom pushbuttons are also available with an M12 connector.

### Customized enclosures (selection by configurator)

To order customized 3SU18 AS-Interface enclosures with pushbuttons and indicator lights, use the 3SU1 configurator to select the elements for equipping. An electronic order form will be generated for the options.

Configurator [see www.siemens.com/sirius-act/configurator](http://www.siemens.com/sirius-act/configurator)

Selection and ordering data

Contact version	Number of NO contacts	Number of NC contacts	Product function positive opening	DT	Screw terminals	PU (UNIT, SET, M)	PS*
					Order No.		
<b>Contact modules for base mounting</b>							
 3SU1400-2AA10-1BA0	Silver alloy	1	0	No	 3SU1400-2AA10-1BA0	1	1 unit
		0	1	Yes	 3SU1400-2AA10-1CA0	1	1 unit
<b>Spring-type terminals</b>							
 3SU1400-2AA10-3BA0	Silver alloy	1	0	No	 3SU1400-2AA10-3BA0	1	1 unit
		0	1	Yes	 3SU1400-2AA10-3CA0	1	1 unit
Operational voltage at AC	Operational voltage at DC	Color	DT	Screw terminals	PU (UNIT, SET, M)	PS*	
V	V			Order No.			
<b>LED modules<sup>1)</sup> for base mounting</b>							
 3SU1401-2BB60-1AA0	24	24	Amber	B	3SU1401-2BB00-1AA0	1	1 unit
			Red	▶	3SU1401-2BB20-1AA0	1	1 unit
			Yellow	B	3SU1401-2BB30-1AA0	1	1 unit
			Green	▶	3SU1401-2BB40-1AA0	1	1 unit
			Blue	B	3SU1401-2BB50-1AA0	1	1 unit
			White	▶	3SU1401-2BB60-1AA0	1	1 unit
	110	--	Amber	B	3SU1401-2BC00-1AA0	1	1 unit
			Red	B	3SU1401-2BC20-1AA0	1	1 unit
			Yellow	B	3SU1401-2BC30-1AA0	1	1 unit
			Green	B	3SU1401-2BC40-1AA0	1	1 unit
			Blue	B	3SU1401-2BC50-1AA0	1	1 unit
			White	B	3SU1401-2BC60-1AA0	1	1 unit
	230	--	Amber	B	3SU1401-2BF00-1AA0	1	1 unit
			Red	B	3SU1401-2BF20-1AA0	1	1 unit
		Yellow	B	3SU1401-2BF30-1AA0	1	1 unit	
		Green	B	3SU1401-2BF40-1AA0	1	1 unit	
		Blue	B	3SU1401-2BF50-1AA0	1	1 unit	
		White	B	3SU1401-2BF60-1AA0	1	1 unit	

<sup>1)</sup> Only for use with SIRIUS commanding and signaling devices.