

Safety position switch with separate actuator Metal enclosure 31 mm, 1x (M20x 1.5) Slow-action contacts 1 NO+1 NC 2x LED yellow/green 24 V DC 5 directions of approaches The matching separate Actuator 3SE5000-0AV0./-0AW. must be ordered separately



product brand name	SIRIUS
Product designation	Mechanical safety switches
Product type designation	3SE5
Suitability for use safety switch	Yes

General technical data	
<b>Product function</b>	
• positive opening	Yes
• Insulation voltage rated value	400 V
<b>Degree of pollution</b>	class 3
<b>Surge voltage resistance rated value</b>	0.8 kV
• Protection class IP	IP66/IP67
<b>Shock resistance</b>	
• acc. to IEC 60068-2-27	30g / 11 ms
<b>Vibration resistance</b>	
• acc. to IEC 60068-2-6	0.35 mm/5g
<b>Mechanical service life (switching cycles)</b>	
• typical	1 000 000
<b>Electrical endurance (switching cycles)</b>	
• at AC-15 at 230 V typical	100 000

Electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical	1 000 000
Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026	6 000
thermal current	10 A
Material of the enclosure of the switch head	metal
Reference code acc. to DIN EN 81346-2	B
Continuous current of the C characteristic MCB	1 A; for a short-circuit current smaller than 400 A
Continuous current of the quick DIAZED fuse link	10 A; for a short-circuit current smaller than 400 A
Continuous current of the DIAZED fuse link gG	6 A; for a short-circuit current smaller than 400 A
Active principle	mechanical
Repeat accuracy	0.05 mm
Minimum actuating force in activation direction	20 N
Length of the sensor	104 mm
Width of the sensor	31 mm
design of the switching contact	mechanical
Operating frequency rated value	50 ... 60 Hz
Number of NC contacts for auxiliary contacts	1
Number of NO contacts for auxiliary contacts	1
Operating current at DC-13 <ul style="list-style-type: none"> <li>• at 24 V rated value</li> </ul>	3 A
Design of the interface for safety-related communication	without

Enclosure	
Design of the housing	block, narrow
Material of the enclosure	metal
Coating of the enclosure	cathodic immersion coating
Design of the housing acc. to standard	Yes

Drive Head	
Design of the operating mechanism	without
Standard-compliant actuator head	EN 50047
Design of the switching function	positive opening
Circuit principle	slow-action contacts
Number of switching contacts safety-related	1

Connections/ Terminals	
• type of electrical connection	screw-type terminals
• type of connectable conductor cross-sections solid	1x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.5 ... 0.75 mm <sup>2</sup> )
• Type of connectable conductor cross-sections finely stranded with core end processing	1x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.5 ... 0.75 mm <sup>2</sup> )

- Type of connectable conductor cross-sections at AWG conductors solid 1x (20 ... 16), 2x (20 ... 18)
- Type of connectable conductor cross-sections at AWG conductors stranded 1x (20 ... 16), 2x (20 ... 18)

#### Safety related data

<b>B10 value</b>	
• with high demand rate acc. to SN 31920	1 000 000
<b>Proportion of dangerous failures</b>	
• with high demand rate acc. to SN 31920	20 %
<b>Cable entry type</b>	1x (M20 x 1.5)

#### Communication/ Protocol

• <b>design of the interface</b>	without
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#### Ambient conditions

<b>explosion protection category for dust</b>	none
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#### Supply voltage

<b>Type of voltage of the supply voltage</b>	
• of the optional LED indicator	DC
<b>Supply voltage</b>	
• of LED	24 V

#### Installation/ mounting/ dimensions

• <b>mounting position</b>	any
<b>Mounting type</b>	screw fixing

#### Certificates/ approvals

<b>General Product Approval</b>	<b>Functional Safety/Safety of Machinery</b>	<b>Declaration of Conformity</b>
 CCC	 CSA	 UL
		<a href="#">Type Examination Certificate</a>  EG-Konf.

<b>Declaration of Conformity</b>	<b>Test Certificates</b>	<b>other</b>
<a href="#">Miscellaneous</a>	<a href="#">Type Test Certificates/Test Report</a>	<a href="#">Confirmation</a>

#### Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<https://www.siemens.com/ic10>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5212-1RV40>

**Cax online generator**

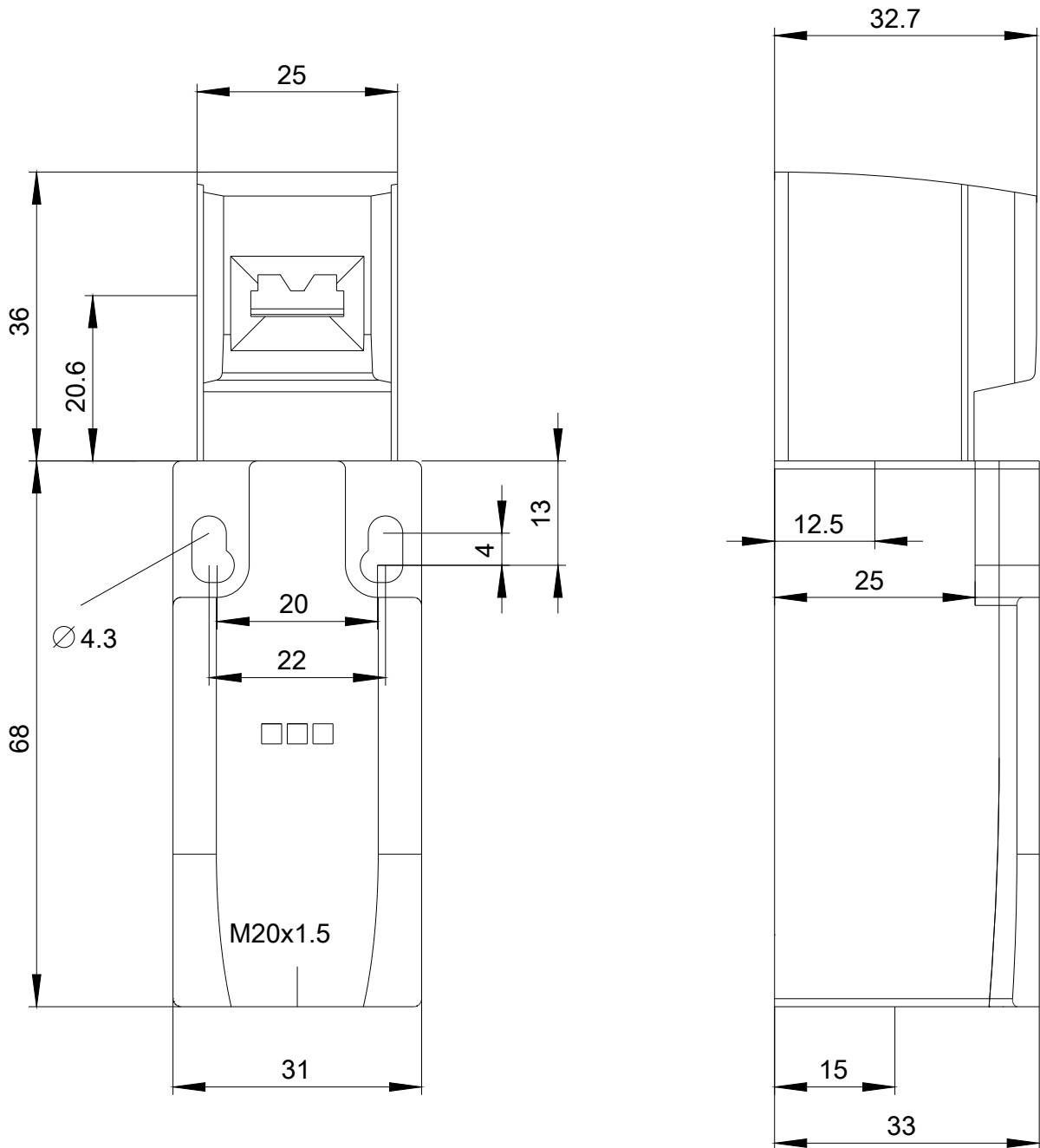
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5212-1RV40>

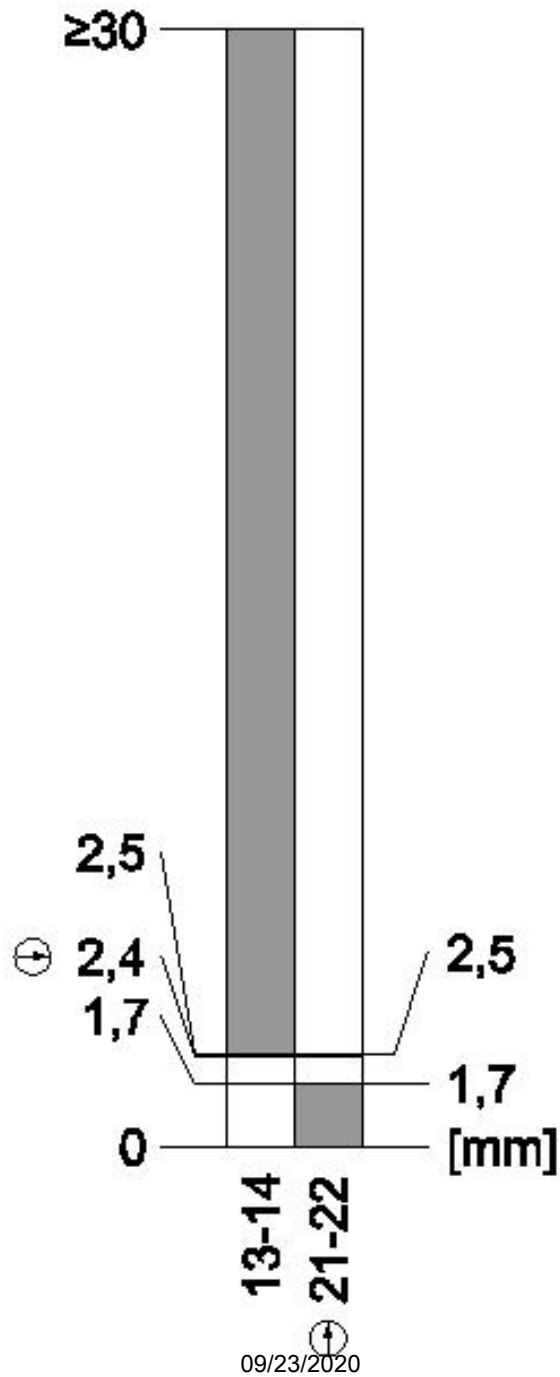
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5212-1RV40>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5212-1RV40&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5212-1RV40&lang=en)





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