

Basic switch for position switch 3SE51 Metal enclosure 40 mm according to EN 50041 Device connection 1x (M20 x 1.5) with 2 LEDs, yellow/green 24 V DC 1 NO/2 NC quick action contacts without actuator head



Product brand name	SIRIUS
Product designation	Mechanical safety switches
Product type designation	3SE5
Manufacturer's article number	
<ul style="list-style-type: none"> • of the supplied basic switch • of the supplied switching contacts • of the supplied empty enclosure with cover 	3SE5112-1LA00 3SE5000-0LA00 3SE5112-1AA00
Suitability for use safety switch	Yes

General technical data	
Product function	
<ul style="list-style-type: none"> • positive opening 	Yes
Insulation voltage	
<ul style="list-style-type: none"> • rated value 	400 V
Degree of pollution	class 3
Surge voltage resistance rated value	0.8 kV
Protection class IP	IP66/IP67
Shock resistance	
<ul style="list-style-type: none"> • acc. to IEC 60068-2-27 	30 g / 11 ms
Vibration resistance	

<ul style="list-style-type: none"> • acc. to IEC 60068-2-6 	0.35 mm/5g
Mechanical service life (switching cycles)	
<ul style="list-style-type: none"> • typical 	15 000 000
Electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical	10 000 000
Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026	6 000
Thermal current	10 A
Reference code acc. to DIN EN 81346-2	B
Reference code acc. to DIN EN 61346-2	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
Active principle	mechanical
Repeat accuracy	0.05 mm
Minimum actuating force in activation direction	20 N
Length of the sensor	85.7 mm
Width of the sensor	40 mm
Design of the switching contact	mechanical
Number of NC contacts for auxiliary contacts	2
Number of NO contacts for auxiliary contacts	1
Operating current at DC-13	
<ul style="list-style-type: none"> • at 24 V rated value 	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	Other, without, basic switch
Design of the switching function	Positive opening with appropriate positive opening actuator head
Circuit principle	snap-action contacts
Number of switching contacts safety-related	2

Connections/ Terminals

Type of electrical connection	screw-type terminals
Type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • solid 	1x (0.5 ... 1.5 mm ²), 2x (0.5 ... 0.75 mm ²)
<ul style="list-style-type: none"> • finely stranded with core end processing 	1x (0.5 ... 1.5 mm ²), 2x (0.5 ... 0.75 mm ²)
<ul style="list-style-type: none"> • at AWG conductors solid 	1x (20 ... 16), 2x (20 ... 18)

• at AWG conductors stranded	1x (20 ... 16), 2x (20 ... 18)
Cable entry type	1x (M20 x 1.5)
Communication/ Protocol	
Design of the interface	without
Ambient conditions	
Ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-40 ... +90 °C
Explosion protection category for dust	none
Supply voltage	
Type of voltage of the supply voltage	
• of the optional LED indicator	DC
Supply voltage	
• of LED	24 V
Installation/ mounting/ dimensions	
Mounting position	any
Mounting type	screw fixing

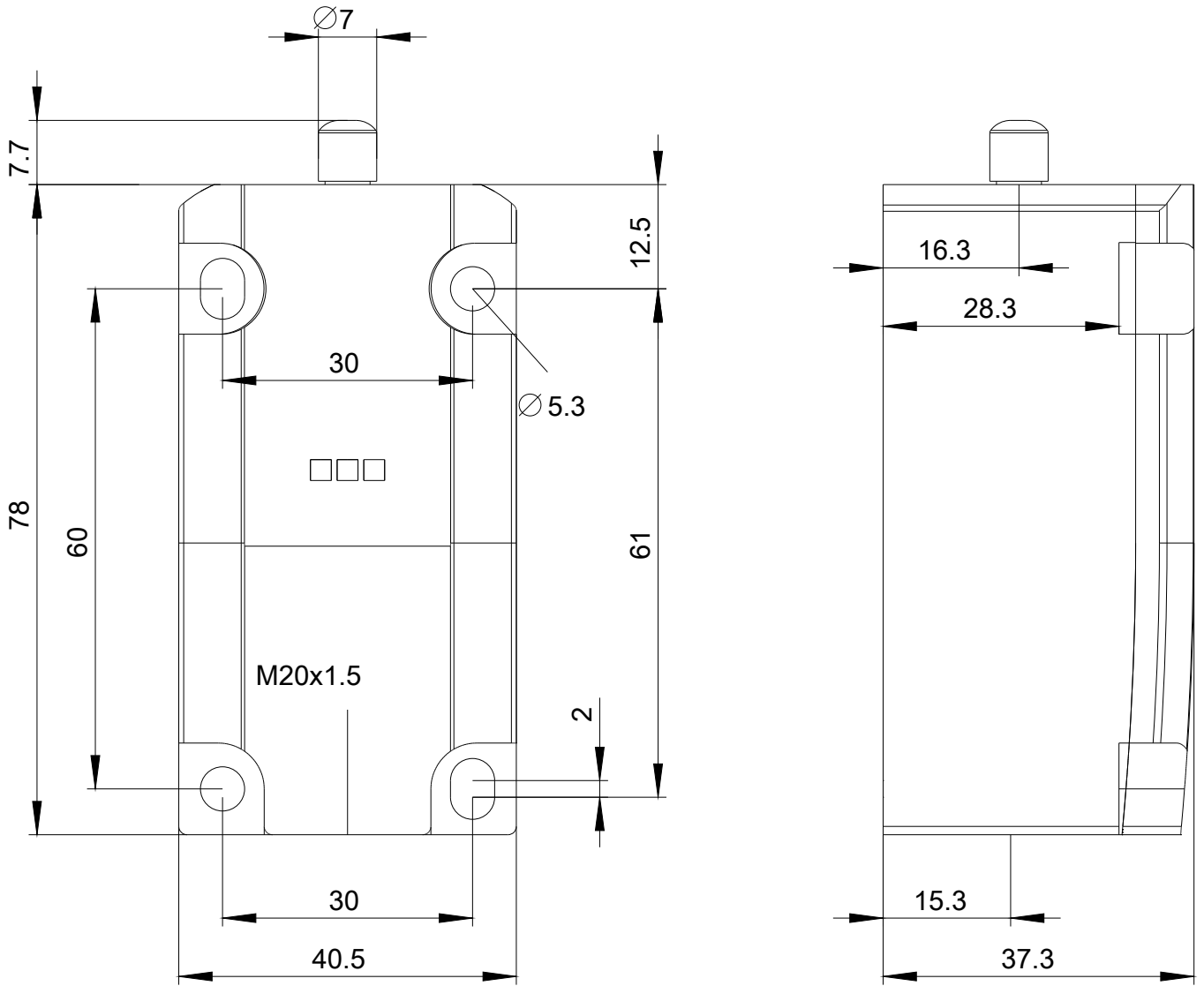
Certificates/ approvals

General Product Approval	Functional Safety/Safety of Machinery	Declaration of Conformity
 CCC	 UL	 EG-Konf.
 CSA		Type Examination Certificate

Declaration of Conformity	Test Certificates	other
Miscellaneous	Type Test Certificates/Test Report	Confirmation

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=3SE5112-1LA00>
- Cax online generator**
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5112-1LA00>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
<https://support.industry.siemens.com/cs/ww/en/ps/3SE5112-1LA00>



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