

Position switch Metal 31 mm, according to EN 50047 Increased corrosion protection Device connection 1 x (M20 x 1.5) 1 NO/1 NC quick action contacts Rounded plunger functional at -40 °C Shock and vibration test according to EN 61373, Category 1B



product brand name	SIRIUS
product designation	Mechanical position 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 	3SE5212-0CC05-1AJ0 3SE5000-0CA00
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	6 kV
protection class IP	IP66/IP67
shock resistance	
<ul style="list-style-type: none"> • acc. to IEC 60068-2-27 • for railway applications acc. to DIN EN 61373 	30g / 11 ms Category 1, Class B
vibration resistance	

<ul style="list-style-type: none"> • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373 	0.35 mm/5g Category 1, Class B
mechanical service life (switching cycles)	
<ul style="list-style-type: none"> • typical 	15 000 000
electrical endurance (switching cycles)	
<ul style="list-style-type: none"> • at AC-15 at 230 V typical 	100 000
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
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
active principle	mechanical
repeat accuracy	0.05 mm
minimum actuating force in activation direction	20 N
length of the sensor	75.7 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
<ul style="list-style-type: none"> • operating current at AC-15 at 24 V rated value • operating current at AC-15 at 120 V rated value • operating current at AC-15 at 240 V rated value • operating current at AC-15 at 400 V rated value 	6 A 6 A 6 A 4 A
operating current at DC-13	
<ul style="list-style-type: none"> • at 24 V rated value • at 125 V rated value • at 250 V rated value • at 400 V rated value 	3 A 0.55 A 0.27 A 0.12 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	Rounded plunger, Teflon plunger
standard-compliant actuator head	EN 50047, design B
shape of the switch head	rounded
design of the switching function	positive opening
circuit principle	snap-action contacts
number of switching contacts safety-related	1

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)
<ul style="list-style-type: none"> • 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	
explosion protection category for dust	none

Installation/ mounting/ dimensions	
mounting position	any
<ul style="list-style-type: none"> • mounting type 	screw fixing

Certificates/ approvals

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

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=3SE5212-0CC05-1AJ0>

Cax online generator

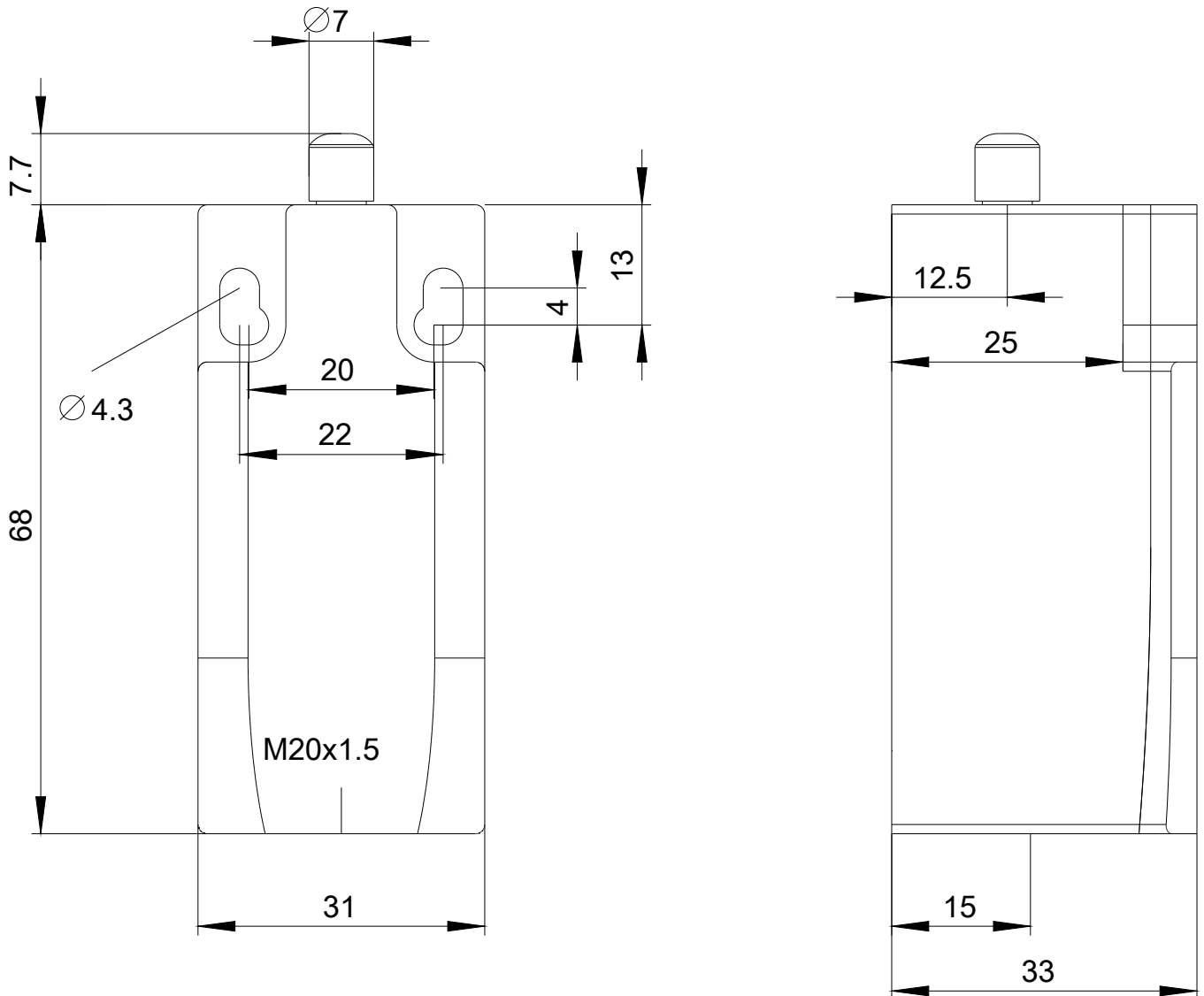
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5212-0CC05-1AJ0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5212-0CC05-1AJ0>

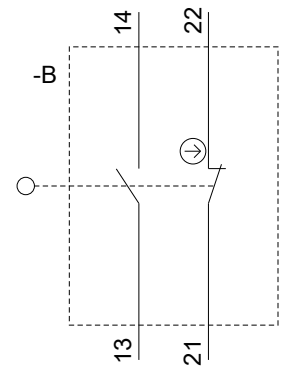
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5212-0CC05-1AJ0&lang=en





1	BN = Brown	→	21
2	WH = White	→	22
3	BU = Blue	→	13
4	BK = Black	→	14



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09/29/2020