



Position switch in compact design 30 mm wide with connector plug M12
Snap-action contacts 1 NO+1 NC with roller plunger

product brand name	SIRIUS
product designation	Mechanical position switches
product type designation	3SE5
suitability for use safety switch	Yes
General technical data	
product function positive opening	Yes
insulation voltage rated value	400 V
degree of pollution	3
surge voltage resistance rated value	4 kV
protection class IP	IP67
shock resistance	
• acc. to IEC 60068-2-27	30g / 11 ms
vibration resistance acc. to IEC 60068-2-6	0.35 mm/5g
mechanical service life (switching cycles) typical	5 000 000
electrical endurance (switching cycles) at AC-15 at 230 V typical	100 000
electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical	500 000
Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026	1 800
thermal current	10 A
material of the enclosure of the switch head	stainless steel
reference code acc. to IEC 81346-2	B
active principle	mechanical
repeat accuracy	0.05 mm
minimum actuating force in directions of actuation	15 N
length of the sensor	70 mm
width of the sensor	30 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
operational current at AC-15	
• at 125 V rated value	6 A
• at 230 V rated value	3 A
operational current at DC-13	
• at 125 V rated value	0.55 A

• at 230 V rated value	0.27 A
design of the interface for safety-related communication	without
Enclosure	
design of the housing	block
material of the enclosure	metal
coating of the enclosure	painted
design of the housing acc. to standard	No
Drive Head	
design of the actuating element	roller plunger
shape of the switch head	roller
design of the switching function	snap-action contact
circuit principle	snap-action contacts
number of switching contacts safety-related	1
Connections/ Terminals	
type of electrical connection	M12 plug, fixed, 5-pole
design of plug-in connection	M12 connector, 5-pole: pin 1= terminal BK, pin 2= BK/WH, pin 3= BU, pin 4= BN, pin 5= GN/YE
Communication/ Protocol	
design of the interface	without
Ambient conditions	
explosion protection category for dust	none
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw fixing
Certificates/ approvals	
General Product Approval	Declaration of Conformity



[Miscellaneous](#)

Declaration of Conformity	other
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[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=3SE5413-0CD20-1EB1>

Cax online generator

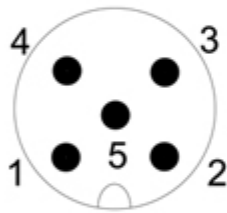
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5413-0CD20-1EB1>

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

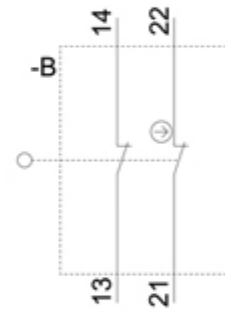
<https://support.industry.siemens.com/cs/ww/en/ps/3SE5413-0CD20-1EB1>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5413-0CD20-1EB1&lang=en



1	BK = Black	→	22
2	BK/WH = Black/White	→	21
3	BU = Blue	→	14
4	BN = Brown	→	13
5	GY/YE = Grey/Yellow	→	PE





last modified:

8/31/2020 