

Position switch in compact design 30 mm wide with connector plug
M12 Snap-action contacts 1 NO+1 NC with rounded 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
Degree of pollution	3
Protection class IP	IP67
Shock resistance	
• acc. to IEC 60068-2-27	30 g / 11 ms
Mechanical service life (switching cycles)	
• typical	10 000 000
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	metal
Reference code acc. to DIN EN 81346-2	B
Reference code acc. to DIN EN 61346-2	B
Active principle	mechanical
Repeat accuracy	0.05 mm
Minimum actuating force in activation direction	20 N
Length of the sensor	60 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
Operating current at AC-15	
• at 125 V rated value	6 A
Operating current at DC-13	
• at 125 V rated value	0.55 A
• at 230 V rated value	0.27 A

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 operating mechanism	rounded plunger
Shape of the switch head	rounded
Design of the switching function	snap-action contact
Circuit principle	snap-action contacts
Number of switching contacts safety-related	1
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
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Ambient conditions

Ambient temperature	
• during operation	-25 ... +85 °C
• during storage	-25 ... +85 °C
Explosion protection category for dust	none

Installation/ mounting/ dimensions

Mounting position	any
Mounting type	screw fixing

Certificates/ approvals

General Product Approval



Declaration of Conformity

[Miscellaneous](#)

other

[Confirmation](#)

Further information

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

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5413-0CC20-1EB1>

Cax online generator

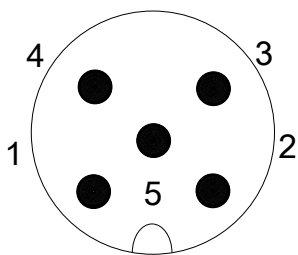
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5413-0CC20-1EB1>

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

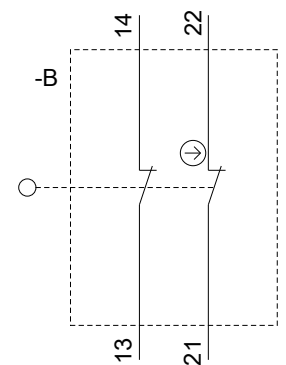
<https://support.industry.siemens.com/cs/ww/en/ps/3SE5413-0CC20-1EB1>

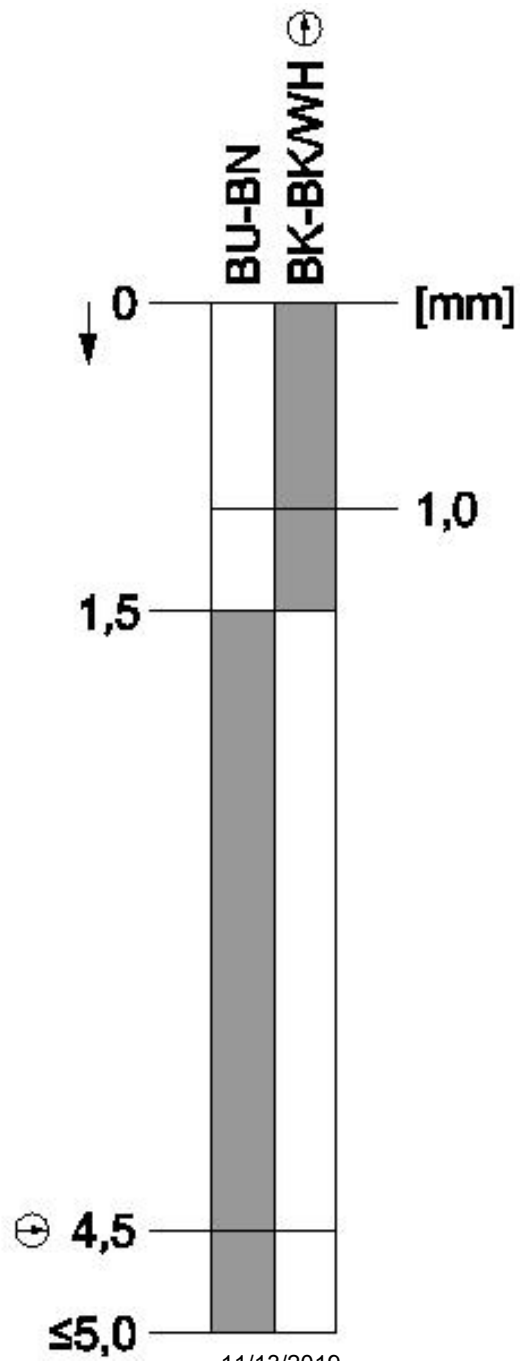
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5413-0CC20-1EB1&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:

11/13/2019