SIEMENS

Data sheet 3SE5413-0CD20-1EB1



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
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	
● **according to IEC 60068-2-27**	30 g / 11 ms
vibration resistance according to IEC 60068-2-6	0.35 mm/5 g
mechanical service life (operating cycles) typical	5 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
thermal current	10 A
material of the enclosure of the switch head	stainless steel
reference code according to IEC 81346-2	B
active principle	mechanical
repeat accuracy	0.05 mm
Substance Prohibitance (day/month/year)	07/01/2006
Net Weight	0.099 kg
minimum actuating force in directions of actuation	15 N
length of the sensor	70 mm
width of the sensor	30 mm
Ambient conditions	
ambient temperature	
● during operation	-25 ... +85 °C
● during storage	-25 ... +85 °C
explosion protection category for dust	none
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

Subject to change without notice
© Copyright Siemens

Enclosure	
design of the housing	block
material of the enclosure	metal
coating of the enclosure	painted
design of the housing according to standard	No
Drive Head	
design of the actuating element	roller plunger
shape of the switch head	roller
design of the switching function	positive opening
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
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw fixing
Connections/ Terminals	
type of electrical connection	M12 plug, fixed, 5-pole
design of the interface for safety-related communication	without
Communication/ Protocol	
design of the interface	without
Approvals Certificates	

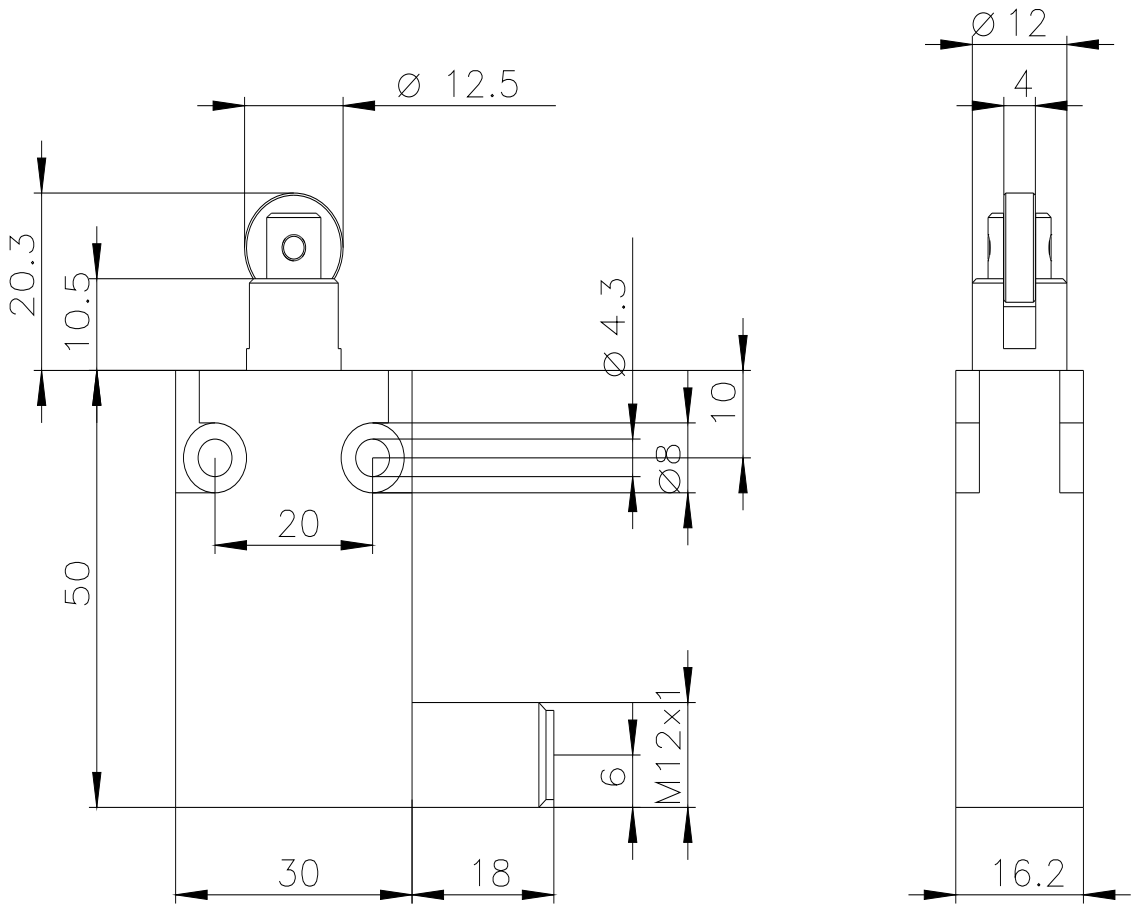
General Product Approval	other
CCC UR EAC CE EG-Konf. UKCA	Confirmation

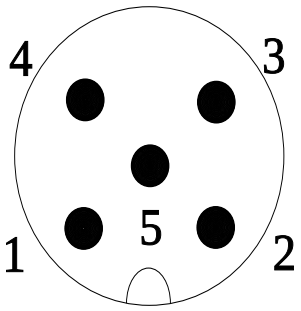
other	Environment
产品合格 QC PASS	Environmental Confirmations

Further information

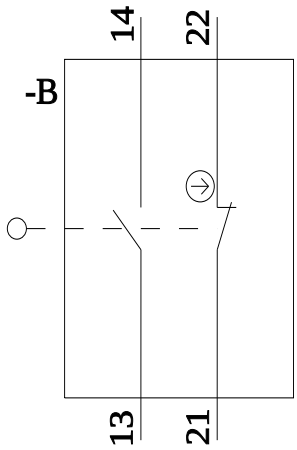
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5413-0CD20-1EB1
Cax online generator
https://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, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5413-0CD20-1EB1&lang=en

Subject to change without notice
© Copyright Siemens

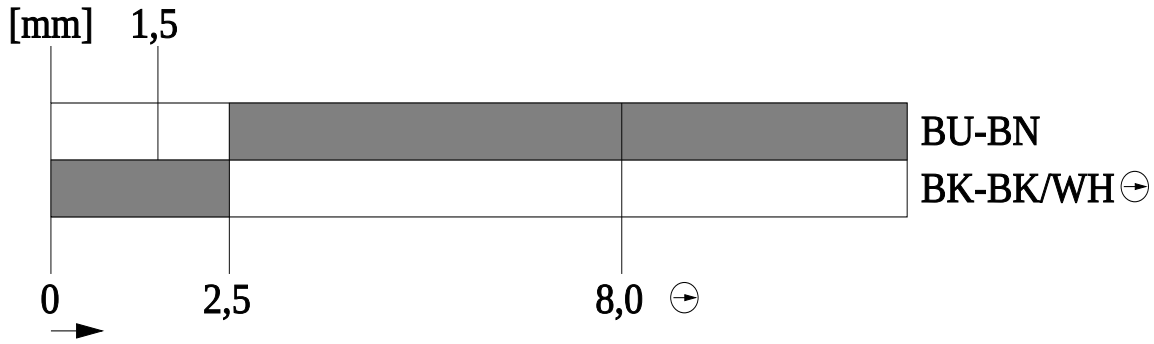




1	→	22
2	→	21
3	→	14
4	→	13
5	→	PE



Subject to change without notice
© Copyright Siemens



last modified: 4/4/2026

Subject to change without notice
© Copyright Siemens