



Position switch Plastic enclosure open type 30 mm 1 NO/1 NC slow-action contacts Metal plunger, IP20

product brand name	SIRIUS
product designation	Open-type position switches
product type designation	3SE5
manufacturer's article number	
• of the supplied switching contacts	3SE5000-0BA00
suitability for use safety switch	Yes
General technical data	
product function positive opening	Yes
insulation voltage rated value	400 V
degree of pollution	class 3
surge voltage resistance rated value	6 kV
protection class IP	IP20, conductor connected and clamping screw screwed in
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	15 000 000
• note	1000000 at 30° angle of approach
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	plastic
reference code according to IEC 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
Substance Prohibitance (day/month/year)	07/01/2006
Net Weight	0.044 g
minimum actuating force in directions of actuation	20 N
length of the sensor	59.2 mm
width of the sensor	30 mm
Ambient conditions	
ambient temperature	
• during operation	-25 ... +85 °C
• during storage	-40 ... +90 °C
explosion protection category for dust	none
Main circuit	
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 24 V rated value • at 120 V rated value • at 240 V rated value • at 400 V rated value	6 A 6 A 6 A 4 A
operational current at DC-13 • 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
Enclosure	
material of the enclosure	plastic, open-type
coating of the enclosure	Other types
design of the housing according to standard	No
Drive Head	
design of the actuating element	Rounded plunger, metal plunger
standard-compliant actuator head	EN 50047, design B
shape of the switch head	rounded
design of the switching function	positive opening
circuit principle	slow-action contacts
number of switching contacts safety-related	1
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw fixing
Connections/ Terminals	
type of electrical connection	screw terminal
type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded	1x (0.5 ... 1.5 mm²), 2x (0.5 ... 0.75 mm²) 1x (0.5 ... 1.5 mm²), 2x (0.5 ... 0.75 mm²) 1x (20 ... 16), 2x (20 ... 18) 1x (20 ... 16), 2x (20 ... 18)
design of the interface for safety-related communication	without
Communication/ Protocol	
design of the interface	without
Safety related data	
product function suitable for safety function	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920	20 % 20 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
IEC 61508	
safety device type according to IEC 61508-2	A
Approvals Certificates	
General Product Approval	



Test Certificates	other	Environment
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[Type Test Certificates/Test Report](#)

[Confirmation](#)



[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=3SE5250-0BC05>

Cax online generator

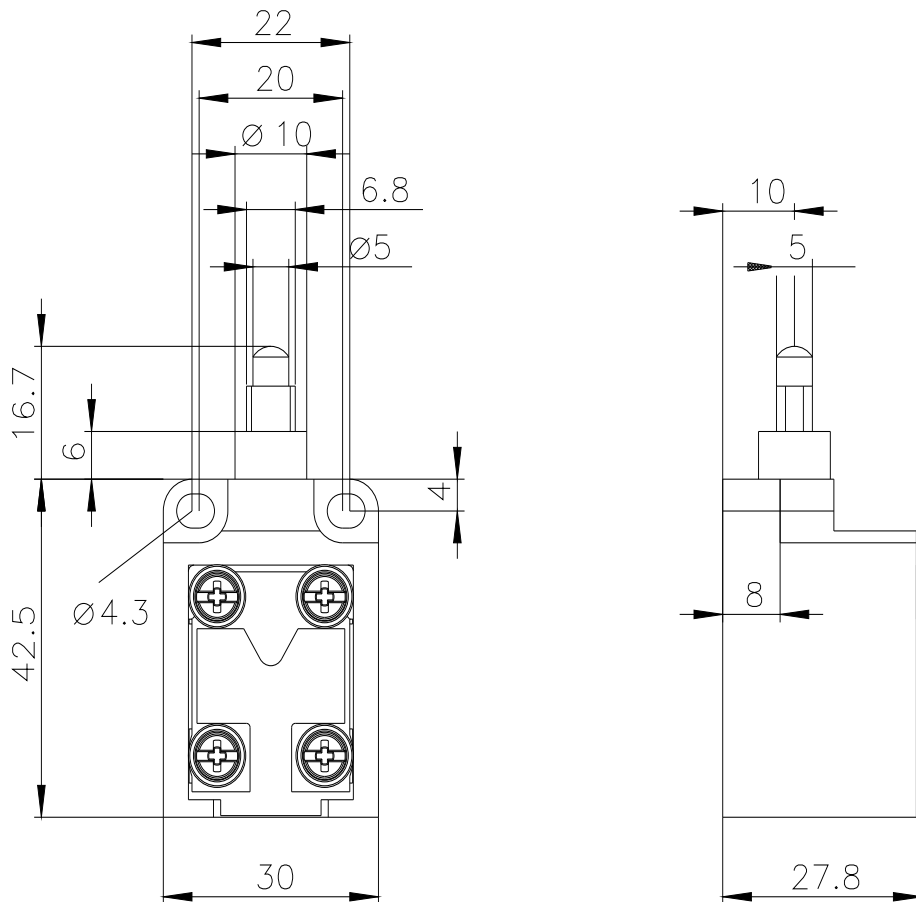
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5250-0BC05>

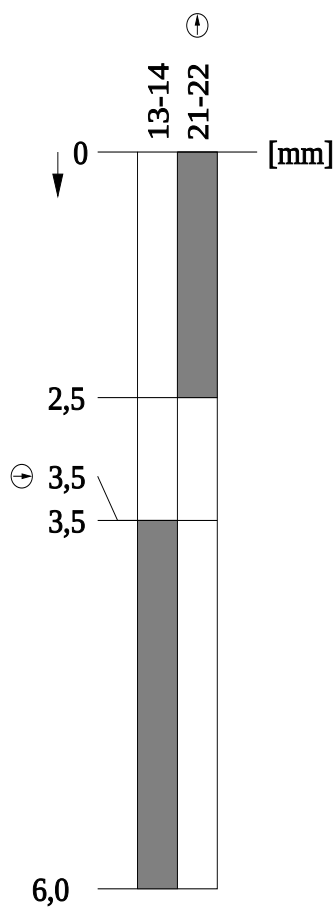
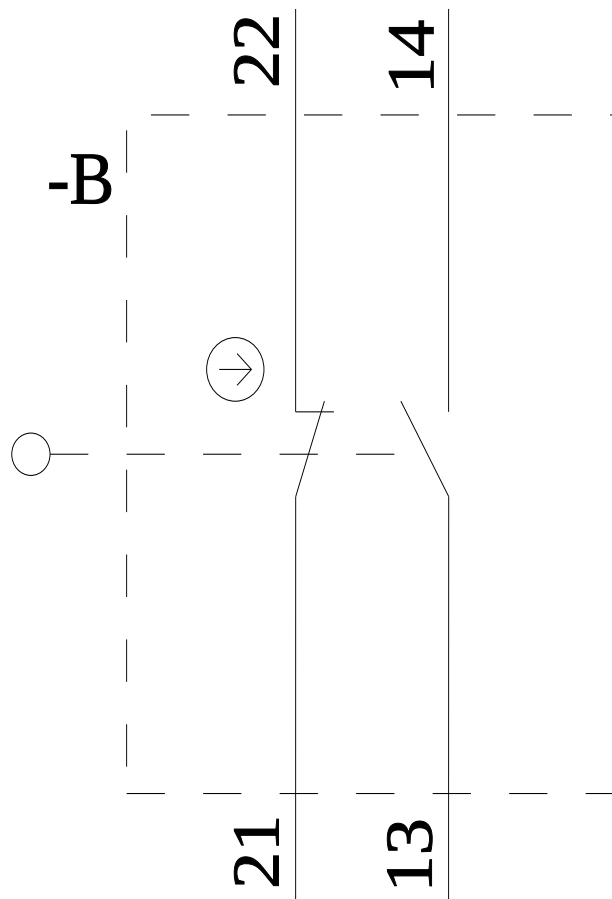
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5250-0BC05>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5250-0BC05&lang=en





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