



Position switch, 3SE51 Metal enclosure 40 mm according to EN 50041 1
NO/1 NC quick action contacts with M12 connector, 5-pole, fixed PIN
assignment: PIN1=21, PIN2=22 PIN3=13, Pin4=14, PIN5=PE with roller
plunger, 30 N Actuating/restoring force

product brand name

SIRIUS

product designation

Mechanical position switches

product type designation

3SE5

manufacturer's article number

- of the supplied basic switch
- of the supplied actuator head for position switches
- of the supplied switching contacts

[3SE5114-0CA00-1AL0](#)

[3SE5000-0AD02](#)

[3SE5000-0CA00](#)

suitability for use safety switch

Yes

General technical data

product function positive opening

Yes

insulation voltage rated value

125 V

degree of pollution

class 3

surge voltage resistance rated value

1.5 kV

protection class IP

IP66/IP67

shock resistance

- according to IEC 60068-2-27

30g / 11 ms

vibration resistance according to IEC 60068-2-6

0.35 mm/5g

mechanical service life (operating cycles) typical

15 000 000

**electrical endurance (operating 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

4 A

material of the enclosure of the switch head

metal

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

4 A; for a short-circuit current smaller than 400 A

continuous current of the DIAZED fuse link gG

4 A

active principle

mechanical

repeat accuracy

0.05 mm

Substance Prohibitance (Date)

07/01/2006

minimum actuating force in directions of actuation

30 N

length of the sensor

130.5 mm

width of the sensor

40 mm

Ambient conditions

ambient temperature

- during operation
- during storage

-25 ... +85 °C

-40 ... +90 °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 24 V rated value	4 A
• at 125 V rated value	4 A
operational current at DC-13	
• at 24 V rated value	3 A
• at 125 V rated value	0.55 A
Enclosure	
design of the housing	block, narrow
material of the enclosure	metal
coating of the enclosure	cathodic dip coating
design of the housing according to standard	Yes
Drive Head	
design of the actuating element	Roller plunger, high-grade steel roller
standard-compliant actuator head	EN 50041, design C
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
cable entry type	M12 plug
design of plug-in connection	M12 plug, 5-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14, Pin 5 = PU
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw fixing
Connections/ Terminals	
type of electrical connection	M12 plug, fixed
design of the interface for safety-related communication	without
Communication/ Protocol	
design of the interface	without
Certificates/ approvals	
General Product Approval	



[Confirmation](#)



Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates	other
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[Type Examination Certificate](#)



[Type Test Certificates/Test Report](#)

[Confirmation](#)

Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

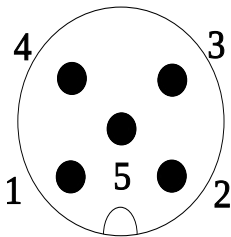
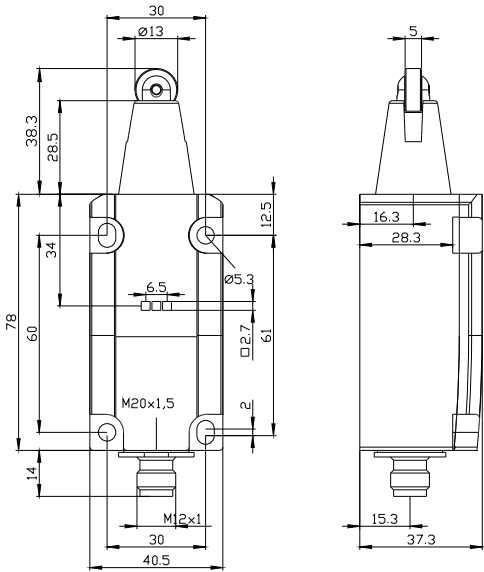
<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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

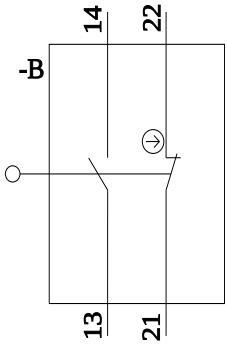
<https://www.siemens.com/ic10>

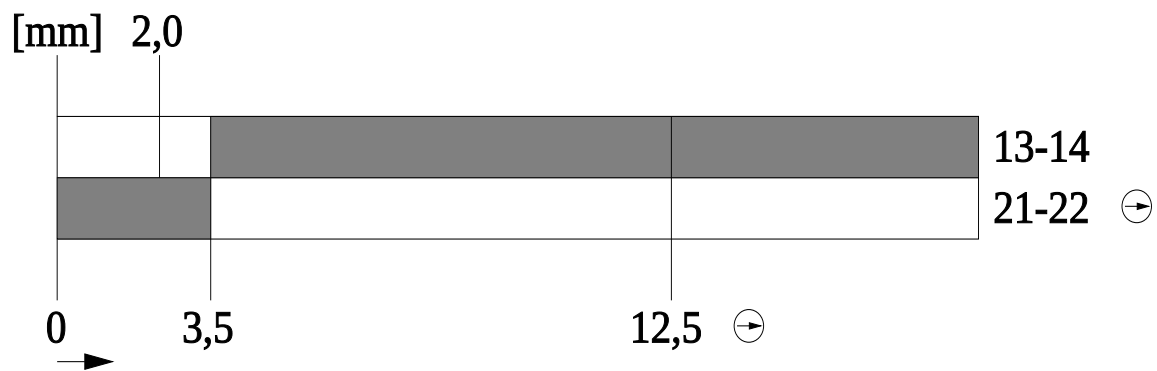
Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5114-0CD02-1AL0>



1	BN = Brown	→	21
2	WH = White	→	22
3	BU = Blue	→	13
4	BK = Black	→	14
5	GN/YE = Green/Yellow	→	⊕





last modified:

1/26/2022 [↗](#)