



Position switch with rounded plunger Metal enclosure, according to EN 50047
ASIsafe integrated AS-i status: 1:F-IN1, 2: F-IN2 3:AS-i/FAULT Slow-action
contacts 2 NC with M12 connector 4-pole Channel 1 to NC, Channel 2 to NC

product brand name	SIRIUS
product designation	Mechanical safety switches
product type designation	3SF12
manufacturer's article number	
• of the supplied basic switch	3SF1214-1KC05-1BA1
suitability for use safety switch	Yes
General technical data	
product function positive opening	Yes
insulation voltage rated value	30 V
degree of pollution	class 3
surge voltage resistance rated value	0.8 kV
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
reference code according to IEC 81346-2	B
active principle	mechanical
repeat accuracy	0.1 mm
Substance Prohibitance (day/month/year)	03/01/2017
SVHC substance name	Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1 Diboron trioxide CAS-No. 1303-86-2 Imidazolidine-2-thione (2-imidazoline-2-thiol) CAS-No. 96-45-7
Net Weight	0.227 g
minimum actuating force in directions of actuation	20 N
length of the sensor	89.7 mm
width of the sensor	31 mm
Ambient conditions	
ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-40 ... +80 °C
design of the switching contact	mechanical
number of NC contacts for auxiliary contacts	2
number of NO contacts for auxiliary contacts	0
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	Other, without, ASi_basic switch with plug
design of the switching function	positive opening
circuit principle	slow-action contacts
number of switching contacts safety-related	2
design of plug-in connection	M12 plug, 4-pole: Pin 1 = ASi+ , Pin 2 = not assigned, Pin 3= ASi-, Pin 4 = not assigned
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw fixing
Connections/ Terminals	
type of electrical connection	M12 plug, fixed, 4-pole
Supply voltage	
type of voltage of the supply voltage of the optional LED display	DC
supply voltage of LED	24 V
•	
design of the interface for safety-related communication	ASIsafe via M12 plug
Approvals Certificates	
General Product Approval	Test Certificates

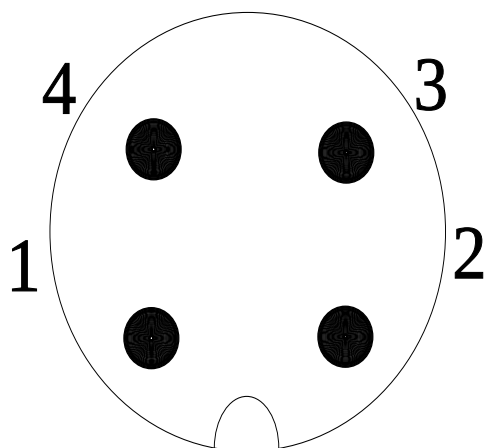
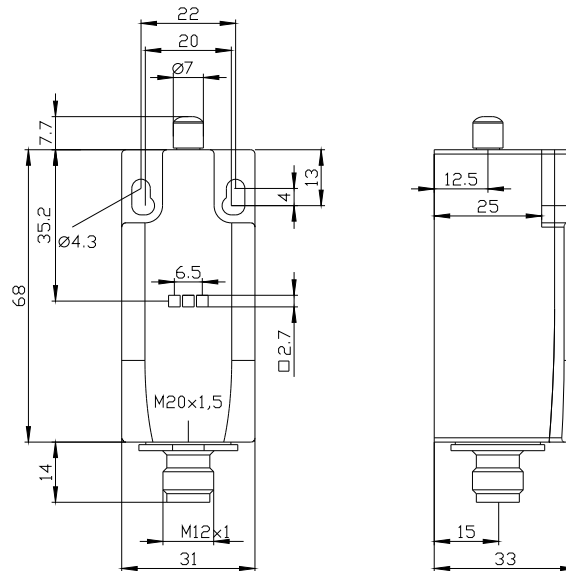


[Type Test Certificates/Test Report](#)

[Type Test Certificates/Test Report](#)

other	Environment
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=3SF1214-1KC05-1BA1 Cax online generator https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SF1214-1KC05-1BA1 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3SF1214-1KC05-1BA1 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SF1214-1KC05-1BA1&lang=en



1	→	ASI +
2	→	n. c.
3	→	ASI -
4	→	n. c.

last modified:

4/4/2026 