



Basic switch without actuator head Plastic enclosure, 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	<a href="#">3SF1234-1KC05-1BA1</a>
suitability for use safety switch	Yes
<b>General technical data</b>	
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	30g / 11 ms
vibration resistance according to IEC 60068-2-6	0.35 mm/5g
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 (Date)	03/01/2017
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1 Imidazolidine-2-thione (2-imidazoline-2-thiol) - 96-45-7 Diboron trioxide - 1303-86-2
Net Weight	0.09 kg
minimum actuating force in directions of actuation	20 N
length of the sensor	89.7 mm
width of the sensor	31 mm
<b>Ambient conditions</b>	
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
<b>Enclosure</b>	
design of the housing	block, narrow
material of the enclosure	plastic
design of the housing according to standard	Yes
<b>Drive Head</b>	
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
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#### 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
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[Type Test Certificates/Test Report](#)

[Type Test Certificates/Test Report](#)

other	Environment
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[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=3SF1234-1KC05-1BA1>

##### Cax online generator

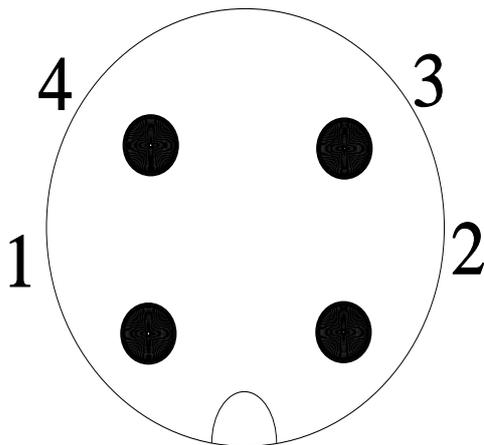
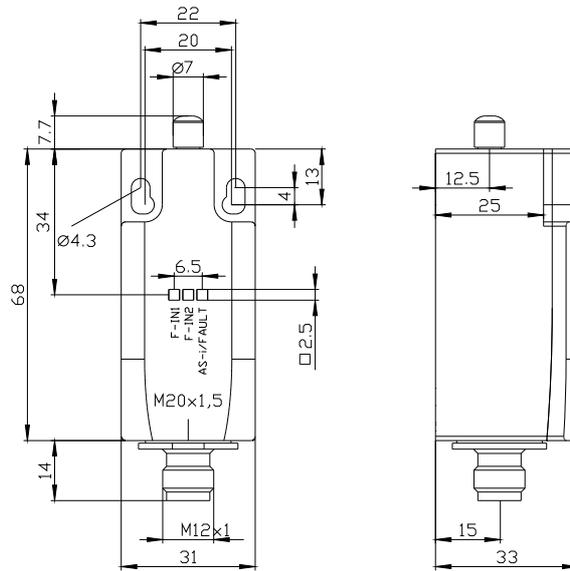
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SF1234-1KC05-1BA1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SF1234-1KC05-1BA1>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SF1234-1KC05-1BA1&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SF1234-1KC05-1BA1&lang=en)



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3	→	ASI -
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4/2/2025 