SIEMENS

Data sheet 3SF1234-1LC05-1BA1

Basic switch without actuator head Plastic enclosure, EN 50047 ASIsafe integrated AS-i status: 1:F-IN1, 2: F-IN2 3:AS-i/FAULT Snap-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	3SF1234-1LC05-1BA1
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
Protection class IP	IP65
Shock resistance	
• acc. to IEC 60068-2-27	30 g / 11 ms
Vibration resistance	
• acc. to IEC 60068-2-6	0.35 mm/5g
Mechanical service life (switching cycles)	

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• typical	15 000 000
Reference code acc. to DIN EN 81346-2	B
Reference code acc. to DIN EN 61346-2	B
Active principle	mechanical
Repeat accuracy	0.1 mm
Minimum actuating force in activation direction	20 N
Length of the sensor	89.7 mm
Width of the sensor	31 mm
Design of the switching contact	mechanical
Number of NC contacts for auxiliary contacts	2
Number of NO contacts for auxiliary contacts	0
Design of the interface for safety-related communication	ASIsafe via M12 plug

Enclosure	
Design of the housing	block, narrow
Material of the enclosure	plastic
Design of the housing acc. to standard	Yes

Drive Head	
Design of the operating mechanism	Other, without, ASi_basic switch with plug
Design of the switching function	positive opening
Circuit principle	snap-action contacts
Number of switching contacts safety-related	2

Connections/ Terminals	
Type of electrical connection	M12 plug, fixed, 4-pole
Design of plug-in connection	M12 plug, 4-pole: Pin 1 = ASI+ , Pin 2 = not assigned, Pin 3= ASI- , Pin 4 = not assigned
AS interface slave profile	0.B.F
ID1 code	F (hex, variable 0...F)

Ambient conditions	
Ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-40 ... +80 °C

Supply voltage	
Type of voltage of the supply voltage	
• of the optional LED indicator	DC
Supply voltage	
• of LED	24 V

Installation/ mounting/ dimensions	
Mounting position	any
Mounting type	screw fixing

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Certificates/ approvals

General Product Approval		Functional Safety/Safety of Machinery	Declaration of Conformity		Test Certificates
UL	EAC	Type Examination Certificate	CE EG-Konf.	Miscellaneous	Type Test Certificates/Test Report

other
Confirmation

Further information

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=3SF1234-1LC05-1BA1

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SF1234-1LC05-1BA1

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3SF1234-1LC05-1BA1

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SF1234-1LC05-1BA1&lang=en

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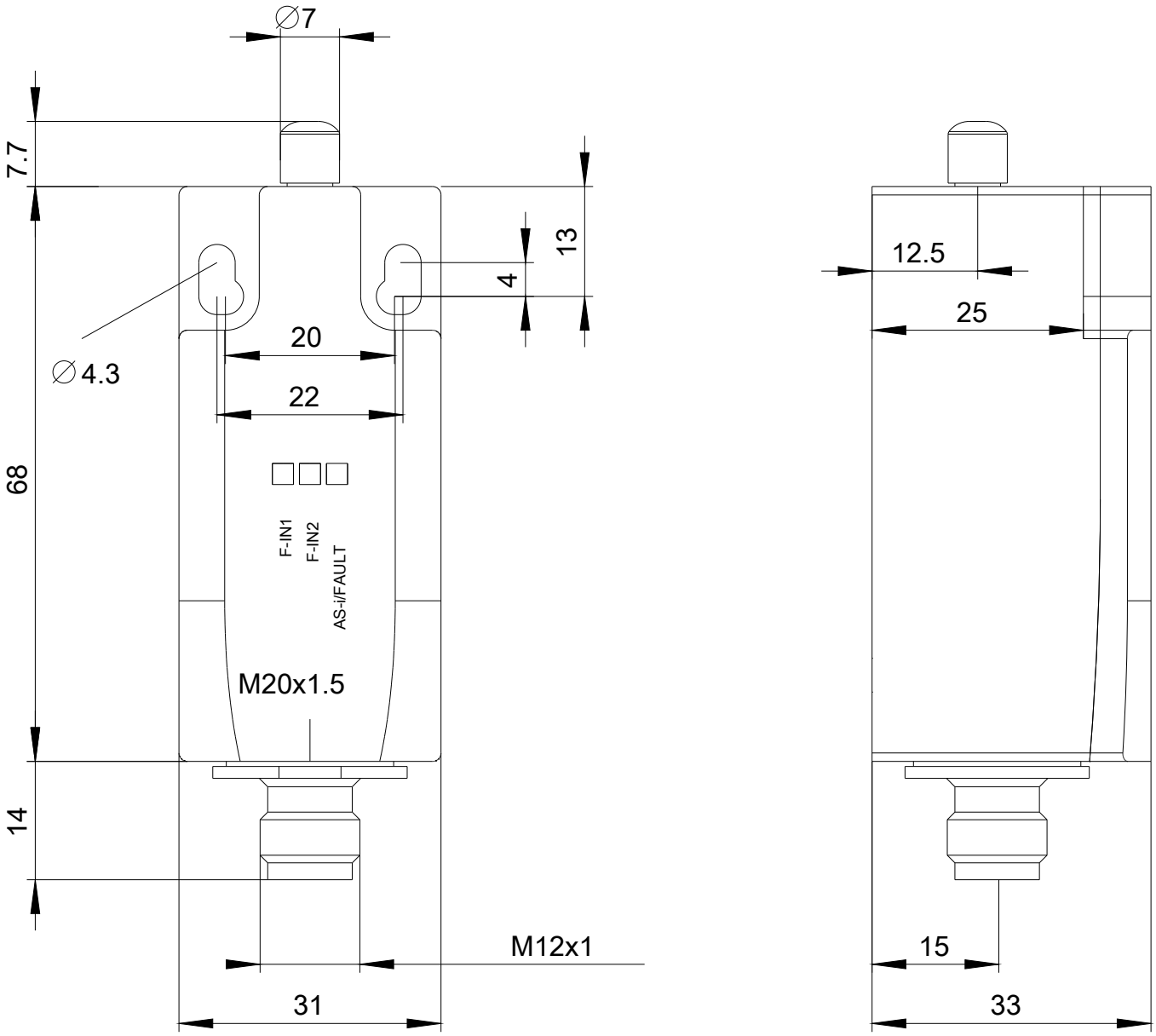

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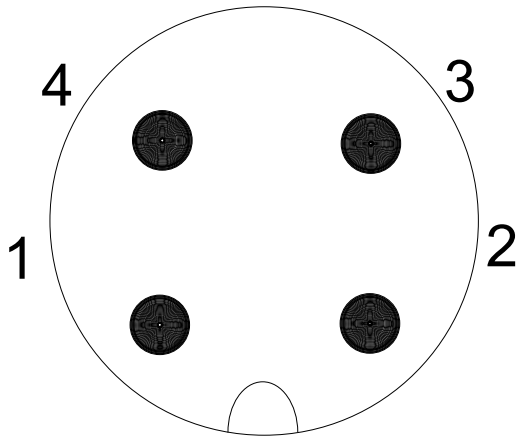

1	→	ASI +
2	→	n. c.
3	→	ASI -
4	→	n. c.

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