

Technical data sheet

Safety switch

Part no.: 63000107

S20-P4C1-M20-FH-CF23-F1J2

Contents

- Set consists of
- Technical data
- Dimensioned drawings
- Electrical connection
- Circuit diagrams
- Notes
- Accessories



For illustration purposes only



Set consists of

	Quantity	Part no.	Designation	Article	Description
 	1	63000706	AC-AN-F1J2	Actuator	Functions: Flexible, 1 direction, Adjustable, 2 directions Dimensions: 56 mm x 16 mm x 35 mm Type of fastening: Through-hole mounting Design: Straight Area of application: Normal duty Mounting bore holes: In key direction Material: Plastic, Stainless steel
	1	63000103	S20-P4C1-M20-FH	Safety switch	Cable entry: 1 Piece(s), M20 x 1.5 Connection: Terminal Dimension: 30.8 mm x 30.8 mm x 93 mm Housing material: Plastic, Glass fiber reinforced (PPS), self-extinguishing Switch type: Interlock device without guard interlocking

Technical data

Basic data

Series	S20
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Functions

Functions	Type 2 interlock device with mechanically actuated position switch with low-coded actuator acc. to DIN EN ISO 14119
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Characteristic parameters

Mission time T_M	20 years, EN ISO 13849-1
$B10_d$	2,000,000 number of cycles

Electrical data

Usage category at DC 13	Ue / Ie: 24 V / 6 A, 125 V / 1.1 A, 250 V / 0.4 A, EN 60947-5-1
Usage category at AC 15	Ue / Ie: 250 V / 6 A, 400 V / 4 A, 500 V / 1 A, EN 60947-5-1
Contact allocation	2NC + 1NO
Contact opening	Force-fit
Short circuit protected	500 V, 10 A, type aM, IEC 60269-1
Contact protection	Protective insulation O

Performance data

Rated insulation voltage	400 V AC, 500 V DC
Conventional thermal current, max.	10 A

Connection

Number of connections	1 Piece(s)
Number of cable entries	1 Piece(s)

Connection 1

Function	Contact connection
Type of connection	Terminal
Type of terminal	Screw terminal
No. of pins	6 -pin

Cable properties

Connection cross sections	1 x 0.34 mm ² to 2 x 1.5 mm ² , wire
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Mechanical data

Design	Cubic
Dimension (W x H x L)	30.8 mm x 30.8 mm x 93 mm
Housing material	Plastic
Plastic housing	Glass fiber reinforced (PPS), self-extinguishing
Electrical contact material	Silver alloy
Net weight	102 g
Housing color	Black Red
Type of fastening	Through-hole mounting
Type of cable entry	M20 x 1.5
Switch type	Interlock device without guard interlocking, ISO 14119
Switching principle	Slow-action contact
Approach actuation directions	1 x top 4 x side (90°)
Approach speed	0 ... 0.5 m/s
Mechanical life time	1,000,000 actuation cycles, IEC 6047-5-1
Actuation frequency, max.	3,600 per hour, IEC 6047-5-1
External actuator	AC-ANxx series: straight, angled, resilient, alignable
Extraction force, unlocked actuator	10 N
Actuating path with forced separation	7.8 mm
Recoil tolerance	4.5 mm
Screw tightening torque	3 ... 4 N·m
Cable gland material of body and ring	Halogen-free technopolymer

Environmental data

Ambient temperature, operation	-25 ... 80 °C
Degree of contamination, external	3, EN 60947-1

Certifications

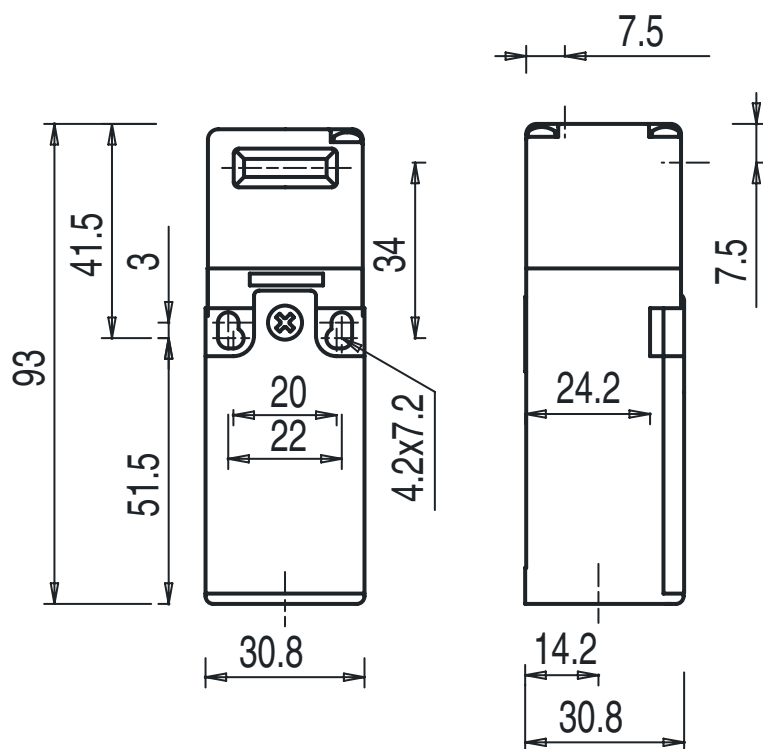
Degree of protection	IP 67 when in the plugged-in and screwed-down state (EN 60529)
Approvals	c UL US IMQ

Technical data

Customs tariff number	85369095
ECLASS 5.1.4	27272602
ECLASS 8.0	27272602
ECLASS 9.0	27272602
ECLASS 10.0	27272602
ECLASS 11.0	27272602
ECLASS 12.0	27272602
ECLASS 13.0	27272602
ECLASS 14.0	27272602
ECLASS 15.0	27272602
ETIM 5.0	EC002592
ETIM 6.0	EC002592
ETIM 7.0	EC002592
ETIM 8.0	EC002592
ETIM 9.0	EC002592
ETIM 10.0	EC002592

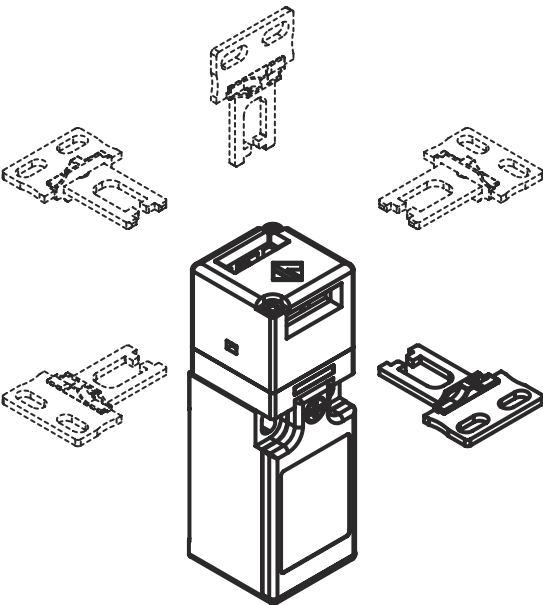
Dimensioned drawings

All dimensions in millimeters

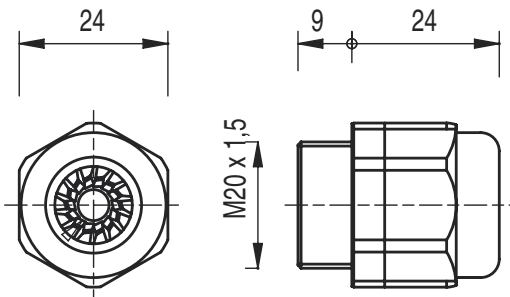


Dimensioned drawings

Approach directions



Cable gland



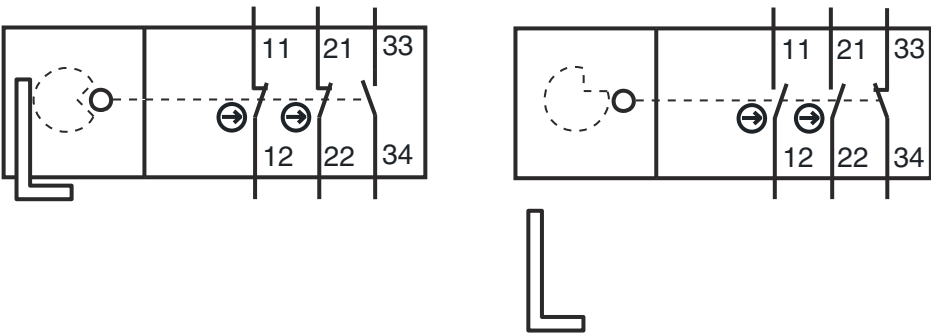
Electrical connection

Connection 1

Function	Contact connection
Type of connection	Terminal
Type of terminal	Screw terminal
Cable gland	M20 x 1.5 / PG 13.5
No. of pins	6 -pin

Terminal	Assignment
11	NC(1)
12	NC(1)
21	NC(2)
22	NC(2)
33	NO(1)
34	NO(1)

Circuit diagrams



11/12 NC contact, forced
21/22 NC contact, forced
33/34 NO (normally open)

Notes

Observe intended use!

The product may only be put into operation by competent persons.

Only use the product in accordance with its intended use.

Accessories

Actuators

	Part no.	Designation	Article	Description
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** Included in delivery contents

Note

A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.