

Technical data sheet

Safety switch

Part no.: 63000104

S20-P4C3-M20-LH

Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Circuit diagrams
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Figure can vary



Technical data

Basic data	
Series	S20

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

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	U _e / I _e : 24 V / 6 A, 125 V / 1.1 A, 250 V / 0.4 A, EN 60947-5-1
Usage category at AC 15	U _e / I _e : 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	3 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

Mechanical data	
Design	Cubic
Dimension (W x H x L)	52.2 mm x 31.6 mm x 90.5 mm
Housing material	Plastic, Glass fiber reinforced (PPS), self-extinguishing
Electrical contact material	Silver alloy
Net weight	114 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

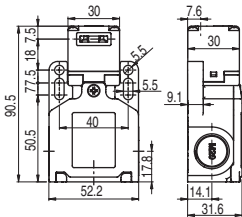
Environmental data	
Ambient temperature, operation	-25 ... 80 °C
Degree of contamination, external	3, EN 60947-1

Certifications	
Degree of protection	IP 67
Certifications	c UL US IMQ

Classification	
Customs tariff number	85369095
eCl@ss 8.0	27272602
eCl@ss 9.0	27272602
ETIM 5.0	EC002592
ETIM 6.0	EC002592

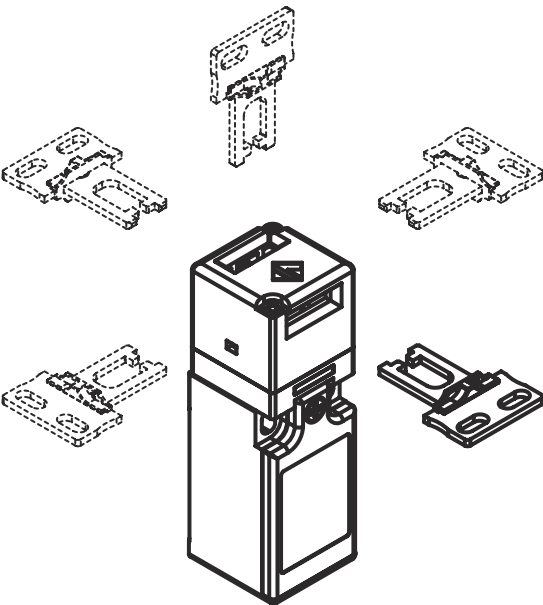
Dimensioned drawings

All dimensions in millimeters



Dimensioned drawings

Approach directions



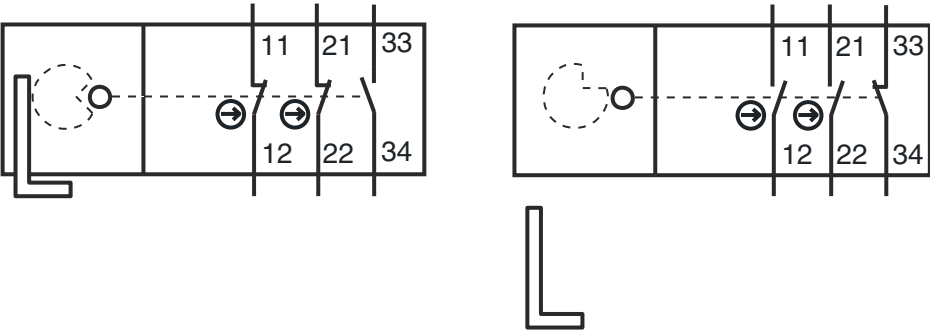
Electrical connection

Connection 1

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

Pin	Pin assignment
	11
1	NC(1)
	12
2	NC(1)
	21
3	NC(2)
	22
4	NC(2)
	33
5	NO(1)
	34
6	NO(1)

Circuit diagrams



21/22 NC contact, forced
11/12 NC contact, forced

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.