

Technical data sheet

Safety hinge switch

Part no.: 63000403

S400-M4M12-T

Contents

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- Electrical connection
- Circuit diagrams
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For illustration purposes only



Technical data

Basic data

| | |
|--------|------|
| Series | S400 |
|--------|------|

Functions

| | |
|-----------|---|
| Functions | Integration in control circuits up to category 4 in accordance with EN ISO 13849-1 Locking device without guard interlocking according to EN ISO 14119 Mechanical hinge with integrated safety switch |
|-----------|---|

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 24 V, Ie 2 A, EN 60947-5-1 |
| Usage category at AC 15 | Ue 24 V, Ie 2 A, EN 60947-5-1 |
| Contact allocation | 2NC + 1NO |
| Contact opening | Force-fit |
| Short circuit protected | 500 V, 2 A, type gG, IEC 60269-1 |

Performance data

| | |
|------------------------------------|------------------|
| Rated insulation voltage | 30 V AC, 36 V DC |
| Conventional thermal current, max. | 2 A |

Connection

| | |
|-----------------------|------------|
| Number of connections | 1 Piece(s) |
|-----------------------|------------|

Connection 1

| | |
|--------------------|--------------------|
| Function | Contact connection |
| Type of connection | Connector |
| Thread size | M12 |
| Material | Metal |
| No. of pins | 8 -pin |

Mechanical data

| | |
|---|--|
| Design | Cubic |
| Dimension (W x H x L) | 49 mm x 22.5 mm x 100.6 mm |
| Housing material | Metal |
| Metal housing | ZAMAK |
| Electrical contact material | Silver alloy |
| Net weight | 332 g |
| Housing color | Silver |
| Type of fastening | Mounting plate Mounting thread |
| Side of cable entry | From above (with left installation) |
| Switch type | Interlock device without guard interlocking, ISO 14119 |
| Switching principle | Slow-action contact |
| Axial stress | 1,500 N·m |
| Radial stress | 1,000 N·m |
| Torsional stress | 25 N·m |
| Mechanical life time | 1,000,000 actuation cycles, IEC 6047-5-1 |
| Actuation frequency, max. | 1,200 per hour, IEC 6047-5-1 |
| Internal actuator | Safety switch in hinge, encapsulated |
| Actuating path (angle) with forced separation | 4 N |
| Actuation angle, max. | 180 ° |
| Actuating path (angle) with forced separation | From set switching point |

Environmental data

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

Certifications

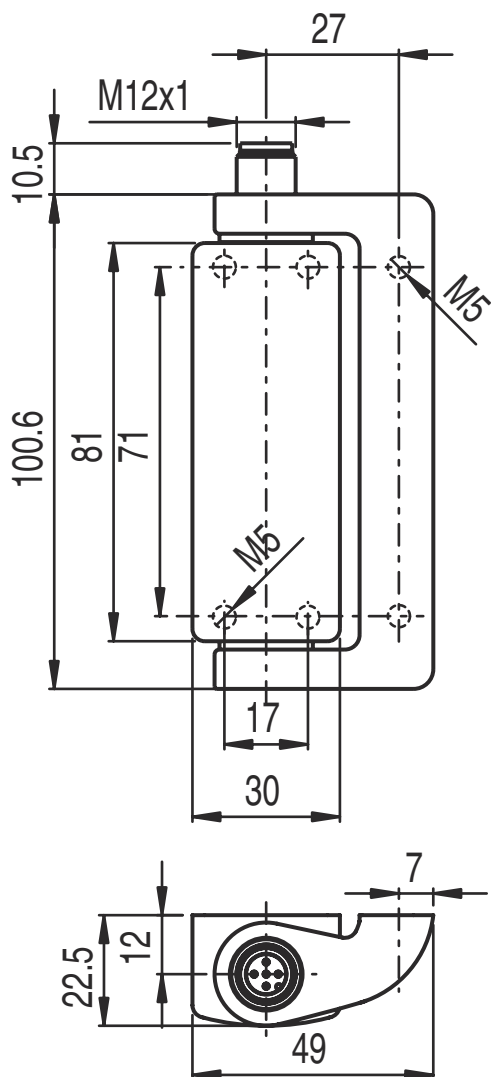
| | |
|----------------------|-----------------|
| Degree of protection | IP 67 IP 69K |
| Approvals | c UL US IMQ |

Classification

| | |
|-----------------------|----------|
| Customs tariff number | 85369095 |
| ECLASS 5.1.4 | 27272690 |
| ECLASS 8.0 | 27270609 |
| ECLASS 9.0 | 27270609 |
| ECLASS 10.0 | 27270609 |
| ECLASS 11.0 | 27270609 |
| ECLASS 12.0 | 27272608 |
| ECLASS 13.0 | 27272608 |
| ECLASS 14.0 | 27272608 |
| ECLASS 15.0 | 27272608 |
| ECLASS 16.0 | 27272608 |
| ETIM 5.0 | EC002591 |
| ETIM 6.0 | EC002591 |
| ETIM 7.0 | EC002591 |
| ETIM 8.0 | EC002591 |
| ETIM 9.0 | EC002591 |
| ETIM 10.0 | EC002591 |
| UNSPSC 26.08 | 39122205 |

Dimensioned drawings

All dimensions in millimeters



Electrical connection

Connection 1

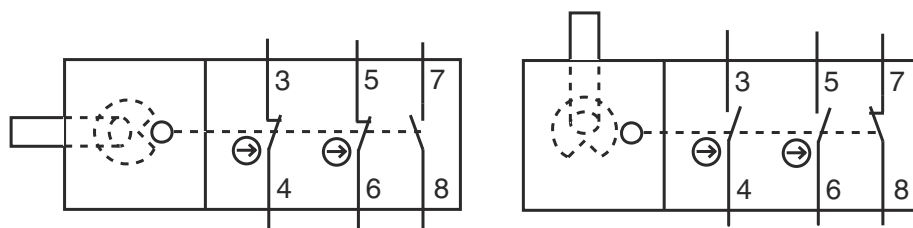
| | |
|--------------------|--------------------|
| Function | Contact connection |
| Type of connection | Connector |
| Thread size | M12 |
| Type | Male |
| Material | Metal |
| No. of pins | 8 -pin |
| Encoding | A-coded |

Electrical connection

| Pin | Pin assignment |
|-----|----------------|
| 1 | GND |
| 2 | n.c. |
| 3 | NC(1) |
| 4 | NC(1) |
| 5 | NC(2) |
| 6 | NC(2) |
| 7 | NO(1) |
| 8 | NO(1) |



Circuit diagrams



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.