

## Technical data sheet

### Safety switch

Part no.: 63000200

S200-M3C1-M20



For illustration purposes only

#### Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Circuit diagrams



## Technical data

### Basic data

|        |      |
|--------|------|
| Series | S200 |
|--------|------|

### Functions

|           |                                                                                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Functions | Integration in control circuits up to category 4 in accordance with EN ISO 13849-1<br>Mechanically coded interlock device of type 2 acc. to EN ISO 14119 |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

### Characteristic parameters

|                             |                                       |
|-----------------------------|---------------------------------------|
| SIL                         | 3, IEC 61508                          |
| SILCL                       | 3, IEC/EN 62061                       |
| Performance Level (PL)      | Up to and including e, EN ISO 13849-1 |
| Mission time T <sub>M</sub> | 20 years, EN ISO 13849-1              |
| B10 <sub>d</sub>            | 2,000,000 number of cycles            |

### Electrical data

|                         |                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------|
| Usage category at DC 13 | U <sub>e</sub> / I <sub>e</sub> : 24 V / 6 A, 125 V / 1.1 A, 250 V / 0.4 A, EN 60947-5-1 |
| Usage category at AC 15 | U <sub>e</sub> / I <sub>e</sub> : 250 V / 6 A, 400 V / 4 A, 500 V / 1 A, EN 60947-5-1    |
| Contact allocation      | 2NC                                                                                      |
| Contact opening         | Force-fit                                                                                |
| Short circuit protected | 500 V, 10 A, type aM, IEC 60269-1                                                        |
| Contact protection      | Earthing                                                                                 |

#### Performance data

|                                    |                    |
|------------------------------------|--------------------|
| Rated insulation voltage           | 500 V AC, 600 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        | 4 -pin             |

#### Cable properties

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Connection cross sections | 1 x 0.34 mm <sup>2</sup> to 2 x 1.5 mm <sup>2</sup> , wire |
|---------------------------|------------------------------------------------------------|

### Mechanical data

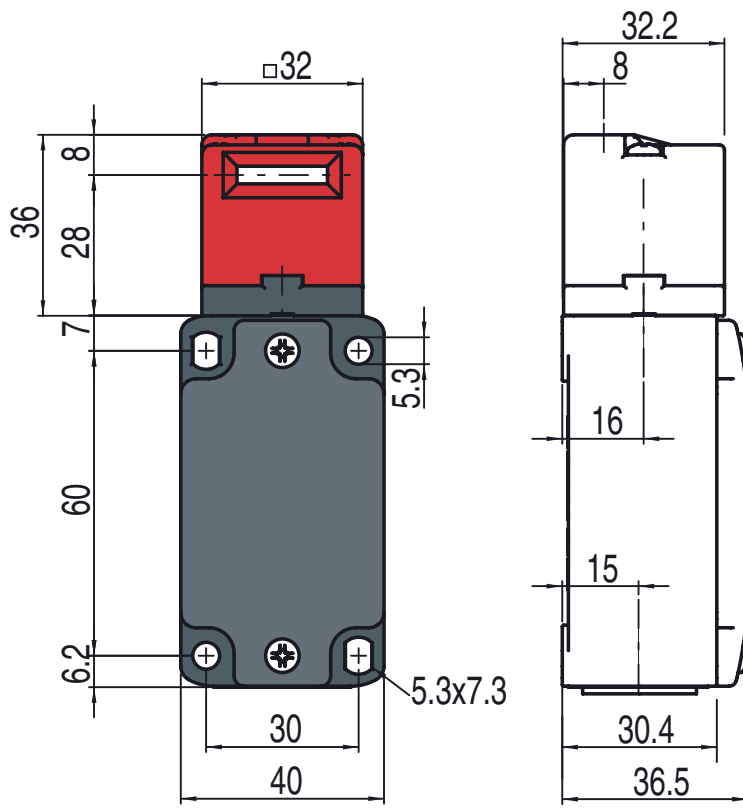
|                                       |                                                         |
|---------------------------------------|---------------------------------------------------------|
| Design                                | Cubic                                                   |
| Dimension (W x H x L)                 | 40 mm x 38 mm x 109.5 mm                                |
| Housing material                      | Metal                                                   |
| Metal housing                         | ZAMAK                                                   |
| Electrical contact material           | Silver alloy                                            |
| Net weight                            | 292 g                                                   |
| Housing color                         | Gray<br>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<br>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-AHxx, series, straight, angled, resilient, alignable |
| Extraction force, unlocked actuator   | 10 N                                                    |
| Actuating path with forced separation | 10.2 mm                                                 |
| Recoil tolerance                      | 4.5 mm                                                  |

### Environmental data

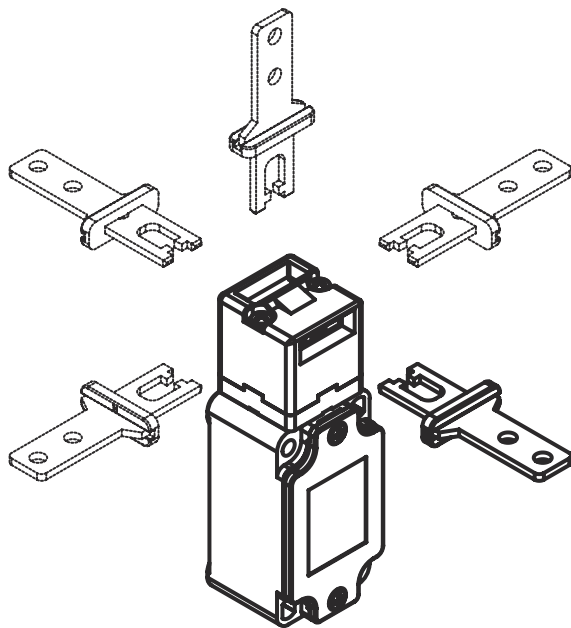
|                                |
|--------------------------------|
| Ambient temperature, operation |
|--------------------------------|

## Dimensioned drawings

All dimensions in millimeters



## Approach directions



Electrical connection

Connection 1

|                    |                    |
|--------------------|--------------------|
| Function           | Contact connection |
| Type of connection | Terminal           |
| Type of terminal   | Screw terminal     |
| No. of pins        | 4 -pin             |

| Terminal | Assignment |
|----------|------------|
| 11       | NC(1)      |
| 12       | NC(1)      |
| 21       | NC(2)      |
| 22       | NC(2)      |

Circuit diagrams

