

# Technical data sheet

## E-STOP rope switch

Part no.: 63000520

ERS200-M4C3-M20-HAR

### Contents

- Technical data
- Dimensioned drawings
- Electrical connection



For illustration purposes only



## Technical data

### Basic data

|        |                                                   |
|--------|---------------------------------------------------|
| Series | ERS200                                            |
| Type   | E-Stop command device, EN ISO 13850, EN 60947-5-5 |

### Functions

|           |                                                              |
|-----------|--------------------------------------------------------------|
| Functions | Clicks in on both sides with positive-opening contacts       |
|           | Position-independent E-STOP command input                    |
|           | Reset function (reset button with indicator)                 |
|           | Simple rope adjustment by means of switching point indicator |

### 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                               |

#### 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 <sup>2</sup> to 2 x 1.5 mm <sup>2</sup> , wire |
|---------------------------|------------------------------------------------------------|

### Mechanical data

|                                                               |                                          |
|---------------------------------------------------------------|------------------------------------------|
| Dimension (W x H x L)                                         | 92 mm x 47.8 mm x 89 mm                  |
| Housing material                                              | Metal                                    |
| Metal housing                                                 | ZAMAK                                    |
| Electrical contact material                                   | Silver alloy                             |
| Net weight                                                    | 364 g                                    |
| Housing color                                                 | Gray                                     |
|                                                               | Red                                      |
| Type of fastening                                             | Through-hole mounting                    |
| Type of cable entry                                           | M20 x 1.5                                |
| Installation position                                         | On rope pull axis, to the right          |
| Switch type                                                   | E-Stop command device, EN ISO 13850      |
| Switching principle                                           | Slow-action contact                      |
| Mechanical life time                                          | 1,000,000 actuation cycles, IEC 6047-5-1 |
| Actuation frequency, max.                                     | 600 per hour, IEC 6047-5-1               |
| External actuator                                             | Rope                                     |
| Actuator, rope length, max. (at 20 °C temperature difference) | 70 m                                     |
| Extraction force, unlocked actuator                           | 235 N                                    |
| Actuation force (pull-out with forced separation)             | 250 N                                    |
| Actuation force (slacken)                                     | 147 N                                    |
| Actuation directions                                          | To right                                 |
| Actuating path with forced separation                         | 14 mm                                    |
| Type of actuation                                             | Rope                                     |
| Type of unlocking                                             | Indicator button (pull)                  |
| Head material                                                 | Metal                                    |

### Environmental data

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

### Certifications

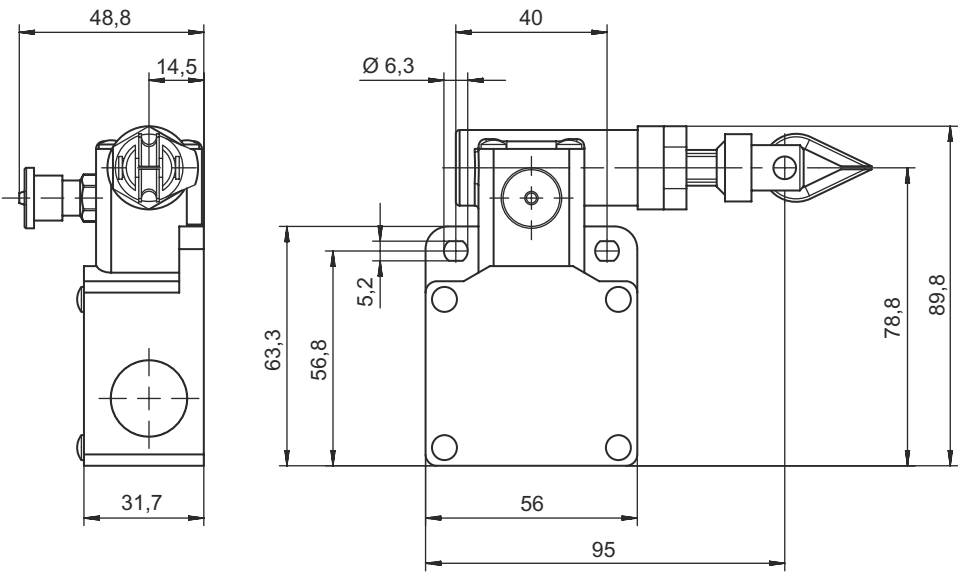
|                      |         |
|----------------------|---------|
| Degree of protection | IP 67   |
| Approvals            | c UL US |
|                      | IMQ     |

### Classification

|                       |          |
|-----------------------|----------|
| Customs tariff number | 85369095 |
| ECLASS 5.1.4          | 27270690 |
| ECLASS 8.0            | 27270607 |
| ECLASS 9.0            | 27371201 |
| ECLASS 10.0           | 27371201 |
| ECLASS 11.0           | 27371201 |
| ECLASS 12.0           | 27371201 |
| ECLASS 13.0           | 27371201 |
| ECLASS 14.0           | 27371201 |
| ECLASS 15.0           | 27371201 |
| ETIM 5.0              | EC002033 |
| ETIM 6.0              | EC002033 |
| ETIM 7.0              | EC002033 |
| ETIM 8.0              | EC002033 |
| ETIM 9.0              | EC002033 |
| ETIM 10.0             | EC002033 |

Dimensioned drawings

All dimensions in millimeters



Electrical connection

Connection 1

|                    |                    |
|--------------------|--------------------|
| Function           | Contact connection |
| Type of connection | Terminal           |
| Type of terminal   | Screw terminal     |
| 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) |