

## Technical data sheet

### E-STOP rope switch

Part no.: 63000504

ERS200-M4C1-M12-HLR

#### Contents

- Technical data
- 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 <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 | 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) |
| Number of cable entries | 1 Piece(s) |

Connection 1

|                    |                    |
|--------------------|--------------------|
| Function           | Contact connection |
| Type of connection | Connector          |

Mechanical data

|                                                               |                                          |
|---------------------------------------------------------------|------------------------------------------|
| Dimension (W x H x L)                                         | 40 mm x 49.5 mm x 138.5 mm               |
| Housing material                                              | Metal                                    |
| Metal housing                                                 | ZAMAK                                    |
| Electrical contact material                                   | Silver alloy                             |
| Net weight                                                    | 308 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                        |
| 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) | 24 m                                     |
| Extraction force, unlocked actuator                           | 83 N                                     |
| Actuation force (pull-out with forced separation)             | 90 N                                     |
| Actuation force (slacken)                                     | 63 N                                     |
| Actuation directions                                          | On longitudinal axis                     |
| Actuating path with forced separation                         | 8 mm                                     |
| Type of actuation                                             | Rope                                     |
| Type of unlocking                                             | Indicator button (pull)                  |
| Head material                                                 | Plastic                                  |

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 |

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            |

| 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)          |