

# Technical data sheet

## E-Stop button

Part no.: 630000008

ESB200-8TR-M12p

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For illustration purposes only



## Technical data

### Basic data

|        |                                                   |
|--------|---------------------------------------------------|
| Series | ESB200                                            |
| Type   | E-Stop command device, EN ISO 13850, EN 60947-5-5 |

### Functions

|           |                                         |
|-----------|-----------------------------------------|
| Functions | Position-dependent E-Stop command input |
|           | Protected screw fitting                 |
|           | Reset function (via rotary knob or key) |

### Characteristic parameters

|                             |                                                   |
|-----------------------------|---------------------------------------------------|
| SIL                         | Up to 3, IEC 61508                                |
| Performance Level (PL)      | Up to and including e, EN ISO 13849-1             |
| Mission time T <sub>M</sub> | 20 years, EN ISO 13849-1                          |
| Category                    | Up to incl. 4 (depending on wiring), EN ISO 13849 |
| B10 <sub>d</sub>            | 600,000 number of cycles                          |
| Life expectancy contact     | 20,000,000 switching cycles                       |

### Electrical data

|                         |                                     |
|-------------------------|-------------------------------------|
| Protective circuit      | Short circuit protected             |
| 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                                 |
| Contact opening         | Force-fit                           |
| Short circuit protected | 500 V, 2 A, type gG/gL, 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          |

### Mechanical data

|                             |                                                          |
|-----------------------------|----------------------------------------------------------|
| Dimension (W x H x L)       | 80 mm x 102.3 mm x 72 mm                                 |
| Housing material            | Plastic                                                  |
| Plastic housing             | Glass fiber reinforced (PPS), self-extinguishing         |
| Electrical contact material | Silver alloy                                             |
| Net weight                  | 248 g                                                    |
| Housing color               | Black                                                    |
|                             | Yellow, RAL 1023                                         |
| Type of fastening           | Through-hole mounting                                    |
|                             | Wall mounting                                            |
| Type of cable entry         | M12                                                      |
| Installation position       | Arbitrary                                                |
| Switch type                 | E-Stop command device, EN ISO 13850                      |
| Switching principle         | Slow-action contact                                      |
| Mechanical life time        | 300,000 actuation cycles, IEC 60947-5-1 switching cycles |
| Actuation frequency, max.   | 3,600 per hour, IEC 60947-5-1                            |
| Type of actuation           | E-Stop button, red                                       |
| Button actuation force      | 25 N                                                     |
| Sensor material             | Plastic                                                  |

### 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 |

### Classification

|                       |          |
|-----------------------|----------|
| Customs tariff number | 85369095 |
| ECLASS 5.1.4          | 27270690 |
| ECLASS 8.0            | 27371244 |
| ECLASS 9.0            | 27371244 |
| ECLASS 10.0           | 27371244 |
| ECLASS 11.0           | 27371244 |
| ECLASS 12.0           | 27371244 |
| ECLASS 13.0           | 27371244 |
| ECLASS 14.0           | 27371244 |
| ECLASS 15.0           | 27371244 |
| ETIM 5.0              | EC002034 |
| ETIM 6.0              | EC002034 |
| ETIM 7.0              | EC002034 |
| ETIM 8.0              | EC002034 |
| ETIM 9.0              | EC002034 |
| ETIM 10.0             | EC002034 |

Electrical connection

Connection 1

|                    |                    |
|--------------------|--------------------|
| Function           | Contact connection |
| Type of connection | Connector          |
| Thread size        | M12                |
| Type               | Male               |
| Material           | Plastic            |
| No. of pins        | 4 -pin             |
| Encoding           | A-coded            |

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