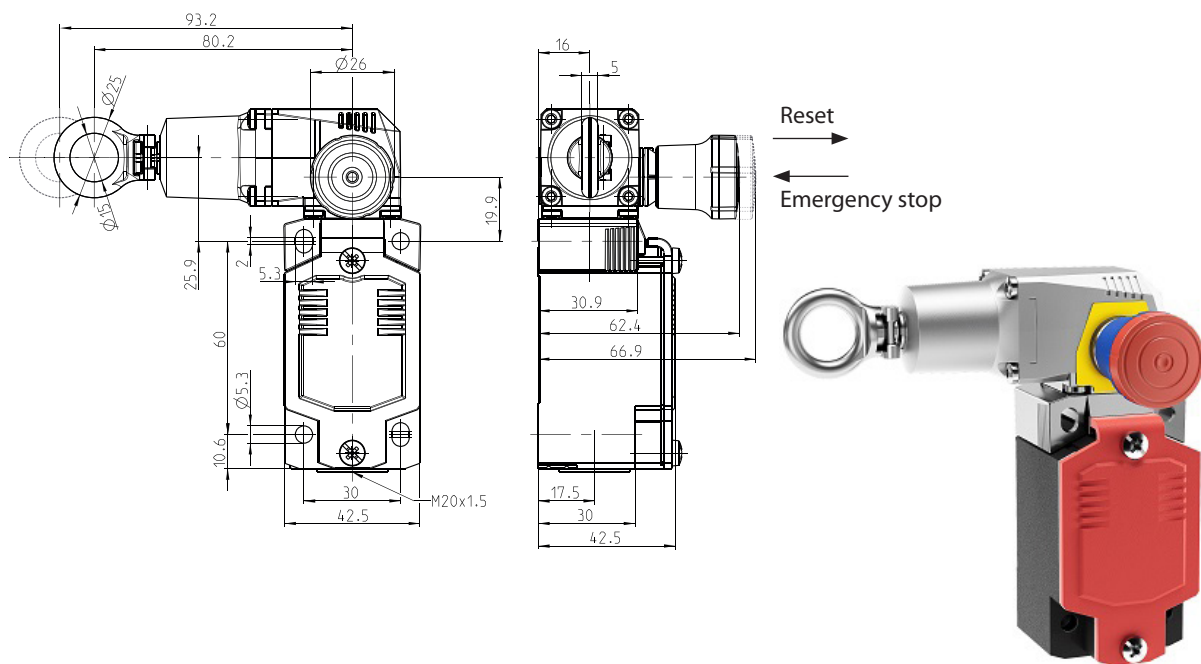


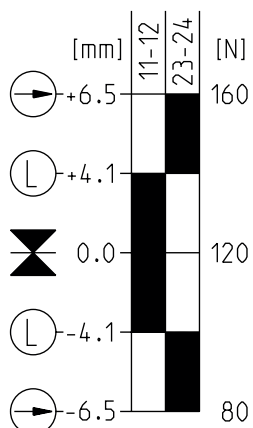
## Safety rope pull switch Series SRO

Description **SRO-M78-11-HL30-2**

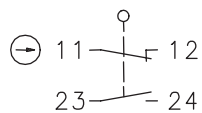
Article number **6012811148**



### Operating diagram



### Operating symbol



Tolerance:  
Operating point  $\pm 0,5$  mm  
Operating force  $\pm 15$  %

| Electrical Data                         |           |   |
|---|-----------|---|
| Rated insulation voltage                | $U_i$     | 400 V   |
| Rated impulse withstand voltage         | $U_{imp}$ | 4 kV  |
| Rated operational voltage               | $U_e$     | 240 V AC / 24 V DC  |
| Rated supply frequency AC               |           | 50 / 60 Hz  |
| Overvoltage category                    |           | II acc. EN 60947-1 annex H table H1                         |
| Conv. thermal current                   | $I_{the}$ | 5 A   |
| Minimum current                         |           | 1 mA  |
| Utilization category                    |           | AC 15, $U_e/I_e$ 240 V / 3 A; DC 13, $U_e/I_e$ 24 V / 1,5 A |
| Direct opening action                   | ⊖         | acc. IEC/EN 60947-5-1, annex K; direct opening force: 170 N |
| Short-circuit protective device         |           | Fuse 4 A gG   |
| Rated conditional short-circuit current |           | 400 A   |
| Protection class                        |           | I   |

| Mechanical data                    |   |
|------------------------------------|---|
| Enclosure                          | Die-cast aluminium  |
| Cover                              | Sheet aluminium   |
| Actuator                           | Pull ring (Zn-die cast)   |
| Emergency stop                     | Thermoplastic, glass fibre reinforced (UL 94-V0)  |
| Operating temperature              | -30 °C ... +75 °C   |
| Storage temperature                | -40 °C ... +80 °C   |
| Protection type                    | IP66 / IP67 acc. EN 60529   |
| Pollution degree (built-in switch) | 3   |
| Contact material                   | silver  |
| Device Class (built-in switch)     | Category E (MC3+CC2+SC1) acc. EN 60947-1 annex Q  |
| Contact type                       | 1 N.C. (Form Zb), 1 N.O.  |
| Latching device                    | acc. to IEC 60947-5-5, DIN EN 60947-5-5, ISO 13850 (DIN EN 418)                         |
| Reset facility                     | pull of the emergency stop acc. to IEC/EN 60947-5-5                                     |
| Switching frequency                | ≤ 20 / min.   |
| Mechanical life                    | 1 x 10 <sup>5</sup> operating cycles  |
| Mission time                       | ≤ 20 years  |
| Rope length                        | ≤ 30 m (depends on the max. temperature variation)                                      |
| Rope Ø                             | D = Ø 2 - 5 mm  |
| Connection                         | 4 screw connections (M3)  |
| Earth bolt                         | 1 x M3,5  |
| Conductor cross-sections           | Solid or Litz wire with ferrules 0,34 mm <sup>2</sup> - 1,5 mm <sup>2</sup> ; AWG 22-16 |
| Cable entrance                     | 1 x M20 x1,5  |
| Weight                             | ≈ 0,470 kg  |
| Installation position              | operator definable  |

| Actuation   |
|---|
| By lifting the clamp the actuation assembly can be rotated in 90° increments.<br>The actuation assembly is to be again fastened to the housing by lowering the clamp. |

| ID for safety engineering |                            |
|---------------------------|----------------------------|
| B10d N.C.                 | 2 x 10 <sup>5</sup> cycles |
| B10d N.O.                 | 2 x 10 <sup>5</sup> cycles |

| Standards |                          |
|-----------|--------------------------|
|           | DIN EN 60947-5-1         |
|           | DIN EN 60947-5-5,        |
|           | UL 508 / CSA C22.2 No.14 |
|           | ISO 13850                |
|           | DIN EN ISO 13849-1       |

| EU Conformity |  |
|---------------|--|
|               | acc. to directive 2006/42/EC (Safety-of-Machinery-Directive) |

| Approvals |                   |                  |
|-----------|-------------------|------------------|
|           | CCC               | (in preparation) |
|           | cUL <sub>US</sub> | (in preparation) |
|           | DGUV              | (in preparation) |

| Notes  |  |
|--|--|
| The degree of protection (IP code) specified applies solely to a properly closed cover and the use of an equivalent cable gland with adequate cable. |  |