

# Emergency stop smart box, illuminated

73-00002.2

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Emergency stop smart box, illuminated

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#### FRONT

**Front dimension:** Ø 32 mm

**Front form:** Round

#### MOUNTING

**Mounting type:** for snapping in place

#### OPERATING-/INDICATION PART

**Lens colour:** Red

**Lens material:** Plastic, according to UL 94 V0

**Lens illumination:** Illuminated

**Lens shape:** Mushroom-head

**Lens optics:** opaque

**Lens:** round

**Switching position ring:** Black

**Illumination colour:** Red

#### ELECTRICAL CHARACTERISTICS

**Switching voltage and switching current:**

|  |               |                |
|--|---------------|----------------|
| Switch rating AC with silver contact (gold plated) |               |                |
| Service category AC-15 as per EN IEC 60947-5-1     |               |                |
| Voltage  | 120 VAC       | 240 VAC        |
| Current  | 3 A           | 1,5 A          |
| Switch rating AC with silver contact (gold plated) |               |                |
| Service category DC-13 as per EN IEC 60947-5-1     |               |                |
| NO contacts  | NC contacts   | NO/NC contacts |
| (48 VA)  | (60 VA)       |                |
| 12 VDC/2.0 A                                       | 12 VDC/2.5 A  | 125 VDC/0.22 A |
| 24 VDC/2.0 A                                       | 24 VDC/2.5 A  | 250 VDC/0.11 A |
| 48 VDC/1.0 A                                       | 48 VDC/1.25 A |                |
| 60 VDC/0.8 A                                       | 60 VDC/1.0 A  |                |

|  |   |
|--|---|
| <b>Contacts:</b>                             | 2 NC  |
| <b>Operating voltage:</b>                    | 5 - 30 V DC (LED)   |
| <b>Operation current:</b>                    | 9,7 - 12,4 mA   |
| <b>Rated Operational Voltage Ue:</b>         | 250 VAC/DC according to EN IEC 60947-1                                  |
| <b>Rated impulse withstand voltage Uimp:</b> | 4 kV, according to EN IEC 60947-1                                       |
| <b>Rated insulation voltage Ui:</b>          | 250 V according to EN / IEC 60947-1                                     |
| <b>Rated short-circuit current caused:</b>   | 1 000 A, type of short-circuit device 6 A gG (EN 60947-5-1)             |
| <b>Recommended minimum operational data:</b> | Silver contacts (gold plated)<br>Voltage 1 VAC/DC<br>Current 1 mA       |
| <b>Switching rating:</b>                     | 250 V   |
| <b>Electrical lifetime:</b>                  | 50 000 cycles of operation  |
| <b>Electric strength:</b>                    | 500 VAC, 50 Hz, 1 minute according to DIN IEC 60512-2                   |
| <b>Overvoltage category:</b>                 | III, according to EN / IEC 61058-1                                      |
| <b>Protection class:</b>                     | II, according to EN / IEC 60947-5                                       |
| <b>Standards:</b>                            | According to EN 60947-5-1, EN 60947-5-5, DIN EN ISO 13850, EN IEC 60204 |
| <b>Thermal current Ith:</b>                  | 5 A   |

## MECHANICAL CHARACTERISTICS

|                             |                             |
|-----------------------------|-----------------------------|
| <b>Terminal:</b>            | Connector M12               |
| <b>Contact material:</b>    | Gold                        |
| <b>Switching action:</b>    | Maintained                  |
| <b>Switching system:</b>    | Slow-make switching element |
| <b>Release type:</b>        | Twist to unlock             |
| <b>Mechanical lifetime:</b> | 250 000 cycles of operation |
| <b>Operating force:</b>     | 20 N ±4 N                   |

**Operating Travel:** ca. 4 mm

**Weight:** 0.141 kg

### AMBIENT CONDITION

**IP Protection:** IP67

**Operating temperature:** – 25 °C ... + 60 °C

**Storage temperature:** – 25 °C ... + 80 °C

**Shock resistance:** Max. 150 m / s<sup>2</sup>, pulse width 11 ms, 3-axis, (semi-sinusoidal as per EN IEC 60068-2-27)

**Vibration resistance:** Max. 50 m / s<sup>2</sup> from 10 Hz ... 500 Hz, 10 cycles, 3-axis (sinusoidal EN IEC 60068-2-6)

### CERTIFICATE

**Approbations:** CCC, UL

**REACH:** REACH compliant

**RoHS:** RoHS compliant

### OTHER

**Short Description:** Emergency stop smart box, illuminated, Maintained, 250 V, 5 - 30 V DC (LED), 2 NC, Connector M12, Round, Red, Red

**Dimension:** 110.9 mm x 45 mm x 45.7 mm

**Material:** Plastic, according to UL 94 V0

**Housing colour:** Yellow

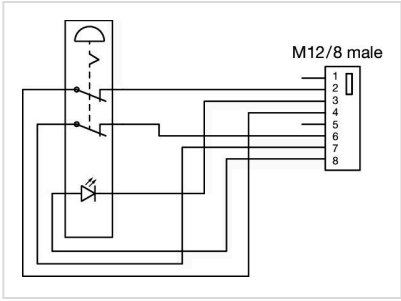
**Housing material:** Plastic, according to UL 94 V0

**Hints:** Mount the mounting adaptor on the mounting surface.  
Hang the Smart-Box on one side (note the orientation of the mounting adaptor on the housing).  
Press the Smart-Box onto the adaptor on the opposite side until the box clicks into place.  
Alternatively, the module can be placed on a standard top-hat rail or mounted on a surface using screws from the rear (see dimension drawings).

**Description component:** Emergency stop switch from the 84 Series / non-illuminated / Part No. 84-5241.2B20, Upper part of housing: PBT / UL-V0 / colour similar to RAL1004; Lower part of housing: PBT / UL-V0 / colour similar to RAL9011; Spring element (for restraint): POM (nature); Seal: MVQ silicone foam bright; Mounting adaptor: Stainless steel 1.4301 / surface vibratory finish; Housing screws: Stainless steel A2; M12 connector housing: Die cast zinc

**Colour RAL:** 1004 RAL

**Wiring diagrams:**



**Dimension drawings:**

