

# Emergency stop smart box, illuminated

73-00002.2

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Emergency stop smart box, illuminated

#### 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) Voltage 1 VAC/DC 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

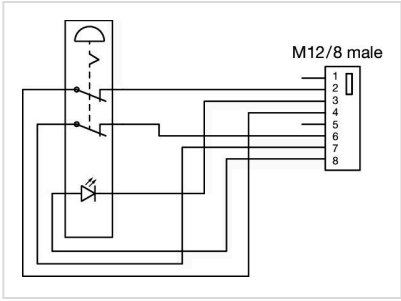
**Housing material:** Plastic, according to UL 94 V0

**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:**

