

# Emergency stop switch

Distribution by DigiKey



84-5220.0020







# 84-5220.0020 Emergency stop switch

## **FRONT**

Front dimension: Ø 32 mm

Front form: Round

#### **MOUNTING**

Mounting cut-out: Ø 22.3 mm

Mounting type: Panel mounting

# **OPERATING-/INDICATION PART**

Lens colour: Red-white

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

Lens illumination: Non illuminated

**Lens shape:** Mushroom-head

**Lens optics:** opaque

Lens: round

Switching position ring: Black

### **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

120 VAC 240 VAC Voltage 1,5 A Current 3 A

Switch rating AC with silver contact (gold plated) Service category DC-13 as per EN IEC 60947-5-1

NO/NC contacts NO contacts 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

**Contacts:** 1 NC

**Rated Operational Voltage Ue:** 250 VAC/DC according to EN IEC 60947-1

Rated impulse withstand voltage

Uimp:

4 kV, according to EN IEC 60947-1

Rated insulation voltage Ui: 250 V according to EN / IEC 60947-1

Rated short-circuit current

caused:

1 000 A, type of short-circuit device 6 A gG (EN 60947-5-1)

Recommended minimum Silver contacts (gold plated)

operational data: Voltage 1 VAC/DC

Current 1 mA

250 V AC @ 1,5 A Switching rating:

**Electrical lifetime:** 50 000 cycles of operation

Electric strength: 500 VAC, 50 Hz, 1 minute according to DIN IEC 60512-2

Overvoltage category: III, according to EN / IEC 61058-1

Pollution degree: 3, according to EN IEC 60947-1

**Protection class:** II, according to EN / IEC 60947-5

Standards: According to EN 60947-5-1, EN 60947-5-5, DIN EN ISO 13850, EN IEC 60204

Thermal current Ith: 5 A

#### **MECHANICAL CHARACTERISTICS**

Terminal: Plug-in terminal, 2.8 x 0.5 mm

**Contact material:** Gold

Switching action: Maintained

Switching system: Slow-make switching element

Twist to unlock Release type:

Mechanical lifetime: 250 000 cycles of operation

**Operating force:** 20 N ±4 N

**Operating Travel:** ca. 4 mm **Tightening torque:** Fixing nut 0.8 Nm

**Weight:** 0.028 kg

**AMBIENT CONDITION** 

IP front protection: IP65, IP66, IP67, according to DIN EN 60529

**IK Protection:** IK07 as per IEC 62262

Operating temperature:  $-25 \, ^{\circ}\text{C} \, ... + 70 \, ^{\circ}\text{C}$ 

Storage temperature:  $-25 \,^{\circ}\text{C} \dots + 85 \,^{\circ}\text{C}$ 

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 / s² from 10 Hz ... 500 Hz, 10 cycles, 3-axis (sinusoidal EN IEC 60068-

2-6)

Climate resistance: Damp heat, cyclic: 96 hours, + 25 °C/97 %, + 55 °C/93 % relative humidity, as per

EN IEC 60068-2-30

Damp heat, steady: 56 days, + 40 °C/93 % relative humidity, according to EN IEC

60068-2-78

Saline mist: 96 hours, + 35 °C in chemical solution NaCl, as per EN IEC 60068-2-

11

Dry heat: 96 hours, + 70 °C, as per EN IEC 60068-2-2

Low temperature: 96 hours, - 40 °C (as per EN IEC 60068-2-1)

**CERTIFICATE** 

**Approbations:** CB (IEC 60947-5-1. IEC60947-5-5), CCC, EN ISO 13850, UL NISD

**Conformities:** CE, UKCA, 2006 / 42 / EC (MD), 2011 / 65 / EC (RoHS)

**REACH:** REACH compliant

RoHS: RoHS compliant

**OTHER** 

Short Description: Emergency stop switch, Ø 22.3 mm, Ø 32 mm, Mushroom-head, Non illuminated,

Red-white, Plastic, according to UL 94 V0, opaque, Round, 1 NC, Maintained, Plug-in terminal, 2.8 x 0.5 mm, IP65, IP66, IP67, according to DIN EN 60529,

Twist to unlock

Material: Plastic, according to UL 94 V0

Housing colour: Yellow

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

**Hints:** Twist to unlock clockwise

Foolproof according to EN IEC 60947-5-5

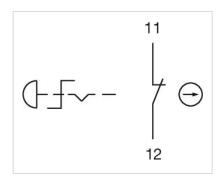
Lens colour Red

**Description component:**The double-break switching system can be supplied for the following switching

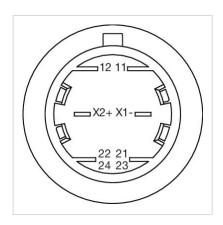
functions: 1 Normally closed, 2 Normally closed, 1 Normally closed + 1 Normally

open. The Normally closed contacts have forced opening according to EN 60947-5-5

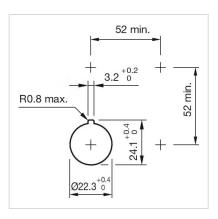
Wiring diagrams:



**Component layouts:** 



Mounting cut-outs:



Dimension drawings:

