

# Emergency stop switch

Distribution by DigiKey



84-5231.2B40







# 84-5231.2B40 Emergency stop switch

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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

**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

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 / 1 NO

Operating voltage: 5 - 30 V DC (LED)

**Operation current:** 9,7 - 12,4 mA

**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

Switching rating: 250 V AC @ 1,5 A

**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**

Flat ribbon cable 300 mm Terminal:

**Contact material:** Gold

Switching action: Maintained

Switching system: Slow-make switching element

Release type: Twist to unlock

Mechanical lifetime: 250 000 cycles of operation Operating force: 20 N  $\pm$ 4 N

Operating Travel: ca. 4 mm

**Tightening torque:** Fixing nut 0.8 Nm

**Weight:** 0.036 kg

#### **AMBIENT CONDITION**

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

**IP Protection:** IP20 rear side

**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 / s<sup>2</sup> 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, 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, Illuminated, Red,

Plastic, according to UL 94 V0, opaque, Round, 1 NC / 1 NO, Maintained, Flat ribbon cable 300 mm, IP65, IP66, IP67, according to DIN EN 60529, Twist to

unlock, Red

Material: Plastic, according to UL 94 V0

Housing colour: Yellow

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

Product attributes:

Twist to unlock clockwise, position indication ring black

Hints:

Twist to unlock clockwise

Luminosity and wave length variations caused by LED manufacturing processes

may cause slight differences regarding the illumination.

Foolproof according to EN IEC 60947-5-5

Lens colour Red

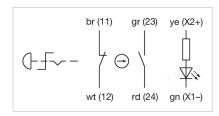
Standard version: Flat ribbon-cable length 300 mm or plug-in terminal 2.8 mm x

0.5 mm

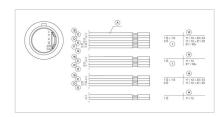
**Description component:** 

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:** 



A = Cable

B = white

C = brown

D = greenE = yellow

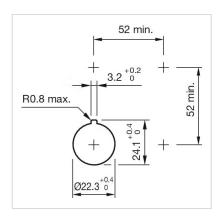
F = grey

G = pink

H = Terminals

I = Illumination

Mounting cut-outs:



**Dimension drawings:** 

