

Emergency stop switch

Distribution by DigiKey



84-5221.2B20







84-5221.2B20 Emergency stop switch

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Front dimension: \varnothing 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

Operating voltage: 5 - 30 V DC (LED)

9,7 - 12,4 mA Operation current:

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

Terminal: Plug-in terminal, 2.8 x 0.5 mm

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: 0.028 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: $-25 \, ^{\circ}\text{C} \, ... + 85 \, ^{\circ}\text{C}$

Shock resistance: Max. 150 m / s², 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

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, Illuminated, Red,

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, Red

Material: Plastic, according to UL 94 V0

Housing colour: Yellow

Housing material: Plastic, according to UL 94 V0

Hints: Twist to unlock clockwise

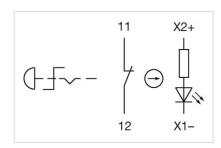
Luminosity and wave length variations caused by LED manufacturing processes

may cause slight differences regarding the illumination.

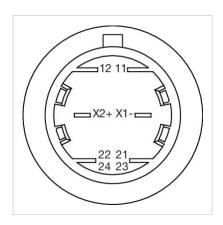
Description component:

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

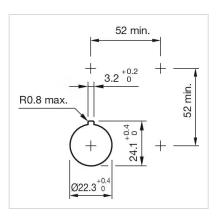
Wiring diagrams:



Component layouts:



Mounting cut-outs:



Dimension drawings:

