Your Expert Partner for **Human Machine Interfaces**

Emergency stop switch

Distribution by DigiKey

84-5241.8D20



https://digikey.eao.com/p/84-5241.8D20

Your product:



84-5241.8D20
Emergency stop switch

FRONT

Front dimension: Ø 32 mm

OPERATING-/INDICATION PART

Illumination colour: Red / Green

Lens colour: Red

Lens shape: mushroom-head

Switching position ring: Black

Lens optics: opaque

Lens illumination: illuminative

Lens material: Plastic

ELECTRICAL CHARACTERISTICS

Thermal current Ith: 5 A

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

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	24(
Current	3 A	1,5

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

NO contacts (48 VA)	NC contacts (60 VA)	NO
12 VDC/2.0 A	12 VDC/2.5 A	12
24 VDC/2.0 A	24 VDC/2.5 A	25(
48 VDC/1.0 A	48 VDC/1.25 A	
60 VDC/0.8 A	60 VDC/1.0 A	

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

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

Rated impulse withstand voltage Uimp:	2.5 kV, according to EN / IEC 60947-1
Contacts:	2 NC
Operating voltage:	2,2 - 2,60 V DC (LED)
Rated short-circuit current caused:	1 000 A, type of short-circuit device 6 A gG (EN 60947-5-1)
Pollution degree:	3, according to EN IEC 60947-1
Rated insulation voltage Ui:	250 V according to EN / IEC 60947-1
Electrical lifetime:	50 000 cycles of operation
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
Operation current:	30 mA

MECHANICAL CHARATERISTIC

Release type:	Twist to unlock
Switching action:	Maintained
Operating force:	17 N ± 4 N
Contact material:	Gold
Terminal:	Plug-in terminal, 2.8 x 0.5 mm
Switching system:	Slow-make switching element
Weight:	0.028 kg
Operating Travel:	ca. 4 mm
Tightening torque:	Fixing nut 0.8 Nm
Mechanical lifetime:	250 000 cycles of operation

AMBIENT CONDITION

Operating temperature:	– 25 °C ... + 70 °C
Storage temperature:	– 25 °C ... + 85 °C
Shock resistance:	Max. 150 m / s^2, pulse width 11 ms, 3-axis, (semi-sinusoidal as per EN IEC 60068-2-27)
IP front protection:	IP65, IP66, IP67
IP Protection:	IP20 rear side
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

Dry heat: 96 hours, + 65 °C, as per EN IEC 60068-2-2
Low temperature: 96 hours, – 25 °C (as per EN IEC 60068-2-1)) UV test, 56 days (EN 60068-2-5:1999)
Saline mist: 96 hours, + 35 °C in chemical solution NaCl, as per EN IEC 60068-2-11

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

CERTIFICATE

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

Approbations: CCC, UL

OTHER

Material: Plastic

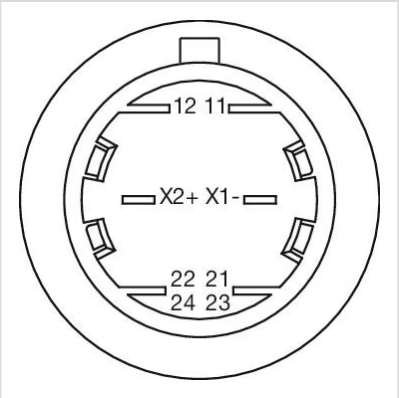
Housing colour: Yellow

Hints: Without built-in series resistor,Operating voltage LED 2,2 VDC (Red), 2,6 VDC (Green),30 mA for both colours

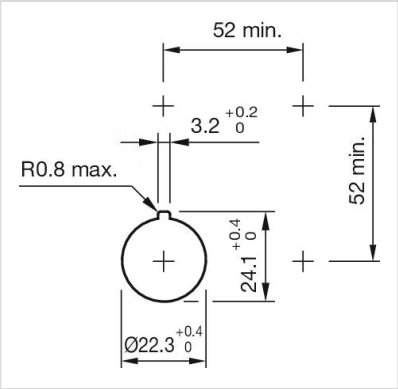
Short Description: Emergency stop switch, Ø 32 mm, mushroom-head, illuminative, Red, Plastic, opaque, 2 NC, Maintained, Plug-in terminal, 2.8 x 0.5 mm, IP65, IP66, IP67, Twist to unlock, Red / Green

Housing material: Plastic, according to UL 94 V0

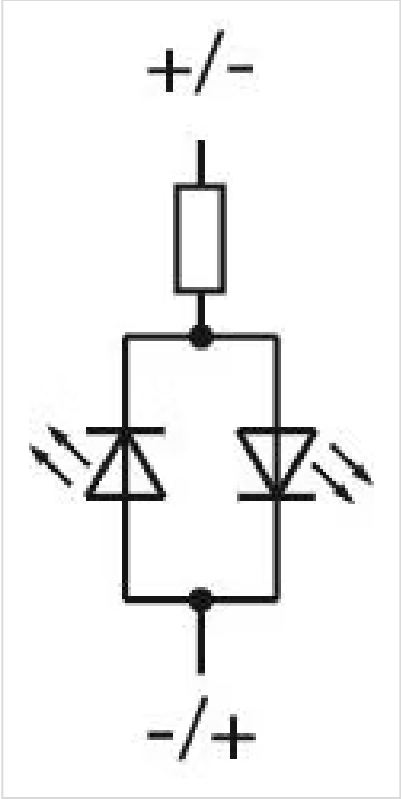
Component layouts:



Mounting cut-outs:



Wiring diagrams:



Dimension drawings:

