Your Expert Partner for **Human Machine Interfaces**

Stop switch

Distribution by Mouser

84-6221.2B20

https://mouser.eao.com/p/84-6221.2B20

Your product:

84-6221.2B20
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:	Grey
Lens material:	Plastic
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	

Contacts: 1 NC

Operating voltage: 5 - 30 V DC (LED)

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 operational data:

Silver contacts (gold plated)	
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 CHARATERISTIC

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: ≥50 000 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 °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)
Vibration resistance:	Max. 50 m / s^2 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:	CCC, UL
Conformities:	CE, UKCA, 2006 / 42 / EC (MD), 2011 / 65 / EC (RoHS)
REACH:	REACH compliant
RoHS:	RoHS compliant

OTHER

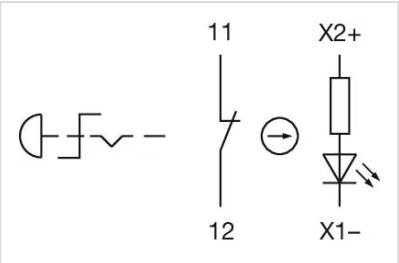
Short Description:	Stop switch, Ø 22.3 mm, Ø 32 mm, Mushroom-head, Illuminated, Grey, Plastic, opaque, Round, 1 NC, Maintained, Plug-in terminal, 2.8 x 0.5 mm, IP65, IP66, IP67, according to DIN EN 60529, Twist to unlock, Red
Material:	Plastic, according to UL 94 V0
Housing colour:	Grey
Housing material:	Plastic, according to UL 94 V0
Product attributes:	Twist to unlock clockwise
Hints:	Position indication ring black,Twist to unlock clockwise,Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences

regarding the illumination. The customer has to decide what resistor shall be used to the LED

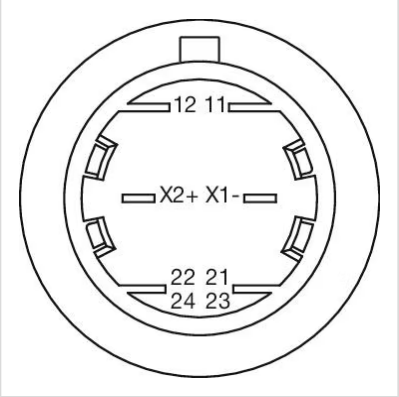
Description component:

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,Material housing actuator: Plastic as per UL94 V0,Material lens: Plastic as per UL94 V2

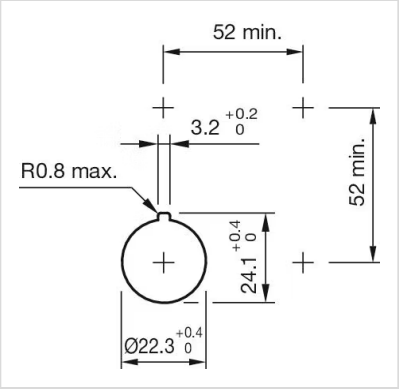
Wiring diagrams:



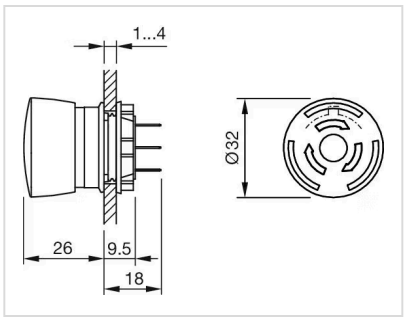
Component layouts:



Mounting cut-outs:



Dimension drawings:


1...4
Ø32
26
9.5
18