

Stop switch

84-6231.2B20

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Your product:



84-6231.2B20

Stop switch

FRONT

Front dimension: Ø 32 mm

Front form: round

MOUNTING

Mounting cut-out: Ø 22.3 mm

OPERATING-/INDICATION PART

Illumination colour: Red

Lens colour: Grey

Lens material: Plastic

Lens optics: opaque

Lens illumination: illuminative

Lens shape: mushroom-head

Switching position ring: Black

ELECTRICAL CHARACTERISTICS

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

Pollution degree: 3, 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)

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

Electrical lifetime: 50 000 cycles of operation

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

Rated insulation voltage Ui:	250 V according to EN / IEC 60947-1		
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	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
	(48 VA)	(60 VA)	
	12 VDC/2.0 A	12 VDC/2.5 A	12 VDC/2.5 A
	24 VDC/2.0 A	24 VDC/2.5 A	25 VDC/2.5 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		
Thermal current Ith:	5 A		
Overvoltage category:	II, according to EN / IEC 61058-1		
Electric strength:	500 VAC, 50 Hz, 1 minute according to DIN IEC 60512-2		
Rated impulse withstand voltage Uimp:	2.5 kV, according to EN / IEC 60947-1		
Operating voltage:	5 - 30 V DC (LED)		

MECHANICAL CHARACTERISTIC

Mechanical lifetime:	≥50 000 cycles of operation
Release type:	Twist to unlock
Operating force:	22 N ±4 N
Contact material:	Gold
Operating Travel:	ca. 4 mm
Switching system:	Slow-make switching element
Weight:	0.028 kg
Switching action:	Maintained
Terminal:	Plug-in terminal, 2.8 x 0.5 mm
Tightening torque:	Fixing nut 0.8 Nm

AMBIENT CONDITION

Vibration resistance:	Max. 50 m / s ² from 10 Hz ... 500 Hz, 10 cycles, 3-axis (sinusoidal EN IEC 60068-2-6)
Operating temperature:	- 25 °C ... + 65 °C
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

Shock resistance: Max. 150 m / s², pulse width 11 ms, 3-axis, (semi-sinusoidal as per EN IEC 60068-2-27)

Storage temperature: – 25 °C ... + 85 °C

IP front protection: IP65, according to DIN EN 60529

CERTIFICATE

Approbations: CCC, UL

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

OTHER

Material: Plastic

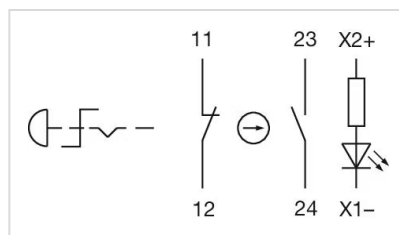
Short Description: Stop switch, Ø 22.3 mm, Ø 32 mm, mushroom-head, illuminative, Grey, Plastic, opaque, round, 1 NC / 1 NO, Maintained, Plug-in terminal, 2.8 x 0.5 mm, IP65, according to DIN EN 60529, Twist to unlock, Red

Housing material: Plastic

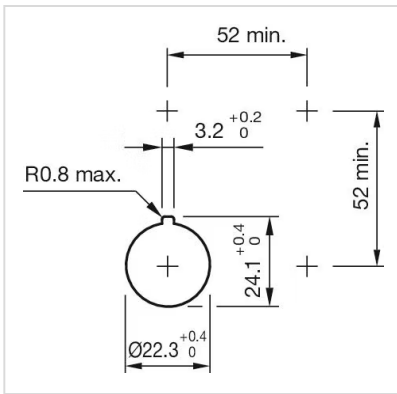
Housing colour: Grey

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

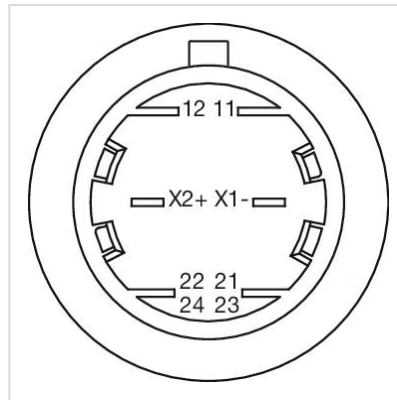
Wiring diagrams:



Mounting cut-outs:



Component layouts:



Dimension drawings:

