

Emergency stop switch

84-5241.8D20





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

Your product:



84-5241.8D20 Emergency 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:	Red
Lens material:	Plastic
Lens illumination:	Illuminated
Lens shape:	Mushroom-head
Lens optics:	opaque
Lens:	round
Switching position ring:	Black
Illumination colour:	Red / Green

ELECTRICAL CHARACTERISTICS

Switching voltage and switching current:

Switch rating AC with silver contact (go Service category AC-15 as per EN IEC Voltage Current Switch rating AC with silver contact (go Service category DC-13 as per EN IEC NO contacts (48 VA) 12 VDC/2.0 A 24 VDC/2.0 A 48 VDC/1.0 A 60 VDC/0.8 A	60947-5-1 old plated)	120 VAC 3 A NC contacts (60 VA) 12 VDC/2.5 A 24 VDC/2.5 A 48 VDC/1.25 A 60 VDC/1.0 A	240 VAC 1,5 A NO/NC contacts 125 VDC/0.22 A 250 VDC/0.11 A
Contacts:	2 NC		
Operating voltage:	2.2 - 2.6 V D	C (LED)	
Operation current:	30 mA		
Rated Operational Voltage Ue:	250 VAC/DC	according to EN IEC	60947-1
Rated impulse withstand voltage Uimp:	4 kV, accordi	ng to EN IEC 60947-	-1
Rated insulation voltage Ui:	250 V accord	ding to EN / IEC 6094	47-1
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 con Voltage Current	tacts (gold plated)	1 VAC/DC 1 mA
Switching rating:	250 V AC @	1,5 A	
Electrical lifetime:	50 000 cycle	s of operation	
Electric strength:	500 VAC, 50	Hz, 1 minute accord	ling to DIN IEC 60512-2
Overvoltage category:	III, according	to EN / IEC 61058-1	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 6	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 ±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 / $\rm s^2$, 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:	CCC, UL
Conformities:	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, opaque, Round, 2 NC, Maintained, Plug-in terminal, 2.8 x 0.5 mm, IP65, IP66, IP67, according to DIN EN 60529, Twist to unlock, Red / Green
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

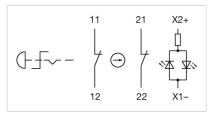
Hints:

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

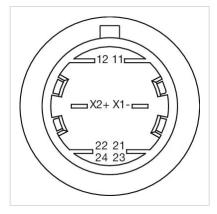
Description component:

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

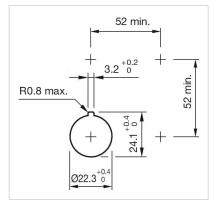
Wiring diagrams:



Component layouts:



Mounting cut-outs:



Dimension drawings:

