



YVDOO

Active illuminated emergency-stop with status indication active (illuminated) / inactive (non-illuminated)





General Data	
Type reference	YVD(O)(OO)(_AU)_R0
Description	Emergency-stop, active/inactive (without diagnostic device), LED without series resistor
Approvals	CE, TÜV_Süd
Contact type	1NC / 2NC
Degree of protection	IP65 / IP67
Connection type	Faston terminals 2.8 mm x 0.5 mm
Contact material	AgNi / AgNi, gold-plated 5µm
Max. storage temperature	-40°C 80°C
Max. operating temperature	-25°C 55°C
Mechanical life	30,000
Electrical life (rated load)	30,000 at rated load
Contact resistance NC	< 20 mOhm/< 50 mOhm (Au)
Bouncing time NC	< 10ms
Positive opening contact	acc. to EN60947-5-1,appendix K

Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)

	alternate current	direct current
Utilisation category	AC15	DC13
Rated insulation voltage Ui	250 V	250V
Rated operating voltage Ue	35 V	35 V
Rated operating current le	5A	2 A
Breaking capacity	10le	1,1le
Continuous thermal current	5A	

Technical Data - Lamp	
Lamp socket	none, with integrated 3 mm LED, without series resistor, with protective diode in series
Definition	X1anode, X2cathode







Additional Data	
Mounting aperture	16.2 mm
Tightening torque (mounting nut)	0.8 1.5 Nm
Release	twist release, left or right
Mounting position	any
Standards	ISO 13850:2015(E), EN ISO 13850:2015(D), DIN EN ISO 13850:2016-05
Material group	1
Overvoltage category	II
Pollution degree	2

Electrical Features - 5µm gold-plating, type addition _AU

 Operational voltage
 20 mV...35 V AC/DC

 Operational current AC/DC
 1 mA ... 100 mA

 Ld
 20% (NC)

 B10d
 250,000

Note

- LED: 0-Ohm series resistor, with protective diode (series-connected)
- with switching position indicator
- diagnostic unit not included
- use partially insulated Faston clamps recommended Schlegel type "FHTI2,8x0,5_01" 0.5-1.5mm² (AWG 20-16) -30°C - 75°C

Illuminated version, status indication active/inactive:

Mushroom "grey": "inactive",no emergency stop Mushroom "red": "active" emergency stop

Technical data of LED:

The LED must not be operated without series resistor.

Do not connect terminals X1-X2 directly to voltage. Observe LED data!

LED type: (Data sheet_LED_YVD_161220.pdf)
Protective diode (series-connected): Taiwan
Semiconductor, TS4148 RYG, forward voltage
max. 1.0V

LED series resistor: 0-Ohm

Typical data at IF=20mA, Tu=25°C: (=recommended amperage) Luminous intensity: typ. 450 mcd Beam angle: typ. 90°

Dominant wave length: 618...627 nm, typ. 623

nm







Average life at 20mA: Brightness loss: approx. 11% (after 10,000h at IF=20mA, 15-30°C) LED cut-off voltage: max. 70V (with protective diode) Max. forward current: 30mA Forward voltage LED: typical 2.0V (1.8V...2.3V)

- The emergency stop must only be used when lighting conditions ensure clear and distinct visibility of the red illuminated (active) mushroom, e.g. in interiors or roofed places without direct
- sunlight (normal industrial environment).

 Before using the emergency stop, a systematic safety review of the overall system is required.
- Depending on the designer's risk assessment, the illumination of the emergency stop must be monitored by means of a "diagnostic unit", and in case of error one has to react in accordance with the risk evaluation.
- The emergency stop lighting must be checked at regular intervals to ensure its clear and distinct

The emergency stop must be replaced if the clear visibility is no longer guaranteed.

- Please observe the operation manual

Standard compliant applications:

- pluggable operator stations
 wireless operator stations
- pluggable system components (fixed system components which are only temporarily in operation)

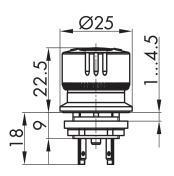




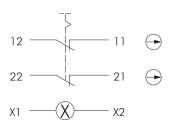
Illustration:



<u>Dimensional drawing:</u>



Wiring diagram:



Drilling pattern:

