FRVKDOO_C113

Emergency-stop with 5-pole M12 connector, AIDA<br/>and status indication active/inactive\ 


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

|  | alternate current | direct current |
| :--- | :--- | :--- |
| Utilisation category | - | DC13 |
| Rated insulation voltage Ui | - | - |
| Rated operating voltage Ue | - | 24 V |
| Rated operating current le | - | 2 A |
| Breaking capacity | - | 2 A |
| Continuous thermal current | none, with integrated 3 mm LED |  |
| Technical DCice - | Pin5: LED+, Pin3: LED- |  |
| Lamp socket |  |  |


| Adclifonct |  |
| :--- | :--- |
| Mounting aperture | 22.3 mm |
| Tightening torque (mounting nut) | $1.0 \ldots 1.7 \mathrm{Nm}$ |
| Release | twist release, left or right |
| Mounting position | any |
| Standards | EN 60947-5-1, EN 60947-5-5, EN ISO 13850 |
| Tightening torque (M12-connector) | $20 \%$ (NC) |
| Ld 0.4 Nm |  |
| B10d [cycles] | 250,000 |
| Overvoltage category | II |
| Pollution degree | 2 |
| Material group | I |

## Note

$\mathrm{O}=\mathrm{NC}$ contact

- with switching position indicator
- the diagnostic unit is not scope of delivery

Conditional short circuit Iq: 1000 A
Rated impulse withstand voltage Uimp: 2.5 KV at contact element
Short circuit means (recommendation): safety fuse 2 A gG
Illumination, status indication active/inactive: acc. to ISO 13850:2015(E), EN ISO 13850:2015(D), DIN EN ISO
13850:2016-05
Mushroom head "grey": "inactive", no emergency-stop
Mushroom head "red": "active" emergency-stop
LED data:
Type: Opto Devices
Typical data at $\mathrm{IF}=20 \mathrm{~mA}$ :
Luminous intensity: min. 10000 mcd , typ. 13000 mcd
Beam angle: typ. $15^{\circ}$
Dominant wave length: 618... 624 nm , typ. 621 nm
Rated voltage: 24 V DC $\pm 10 \%$
Rated current: $17.8 \mathrm{~mA}(15.6 \ldots 19.95 \mathrm{~mA})$
Typical luminous intensity at $\mathrm{IF}=18 \mathrm{~mA}$ : min. 9000 mcd , typ. 11700 mcd
Cut-off voltage LED: max. 70 V
Average lifetime: abt. 80.000...100.000 h
Safety instructions / mounting instructions

- The emergency-stop must only be used when lighting conditions ensure a 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 safety review of the entire system is required.
- Depending on the designer's risk assessment, the illumination of the emergency-stop has to be monitored by means of a "diagnostic unit", and in case of a failure one has to react in accordance with the risk evaluation.
- The illumination of the emergency-stop has to be checked regularly as to its clear perceptibility. The emergency-stop has to be exchanged in case the clear perceptibility is no longer given.
- the M12 connector must not be connected or disconnected under load
- the single connector pin may be loaded with max. 2 A
- not suitable for use under water
- there may not be any mechanical load on the M12 connector, ensure that there is sufficient stain relief!
- observe the operating instructions
- depending on the usage the LED connected to the common pin must be considered in the overall system There is no electrical isolation from the normally closed contact!
- observe the operating instructions
- voltage of $+24 \mathrm{~V} \pm 10 \%$ must be applied at pin 5 to operate the "active/inactive" LED.

Standard compliant applications:

- pluggable operator stations
- wireless operator stations
- pluggable system components (system components which are stationary available but only temporarily in operation)

Pin assignment:
Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Type
NC1 NC2 LED - NC1 COM (NC2, LED +) 2 NC (AIDA)


MADE IN GERMANF

[Bild exemplarisch]


