FRVK_ALLE

Emergency-stop


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

|  | alternate current | direct current |
| :--- | :--- | :--- |
| Utilisation category | AC15 B300 | DC13 Q300 |
| Rated insulation voltage Ui | 250 V | 250 V |
| Rated operating voltage Ue | $240 \mathrm{~V} / 120 \mathrm{~V}$ | $250 \mathrm{~V} / 125 \mathrm{~V} / 60 \mathrm{~V} / 24 \mathrm{~V}$ |
| Rated operating current le | $1.5 \mathrm{~A} / 3 \mathrm{~A}$ | $0.27 \mathrm{~A} / 0.55 \mathrm{~A} / 1 \mathrm{~A} / 2 \mathrm{~A}$ |
| Breaking capacity | 10 le | $1,11 \mathrm{e}$ |
| Continuous thermal current | 5 A | - |

## Technical Data - Lamp

| Max. lamp voltage | $30 \mathrm{VAC} / \mathrm{DC}$ |
| :--- | :--- |
| Max. lamp output | 4 mA at 24 VDC$)$ |
| Definition | $\mathrm{X} 1 \ldots$ anode, $\mathrm{X} 2 \ldots$..athode |


| Addifional dota |  |
| :--- | :--- |
| Mounting aperture | 22.3 mm |
| Tightening torque (mounting nut) | $1.3 \ldots 1.9 \mathrm{Nm}$ |
| Release | twist release, left or right |
| Mounting position | any |
| Standards | EN 60947-5-1, EN 60947-5-5, EN ISO 13850 |
| Ld | $20 \%$ (NC) |
| B10d [cycles] | 250,000 |
| Pollution degree | 3 |

## Note

$\mathrm{O}=\mathrm{NC}$ contact; $\mathrm{I}=\mathrm{NO}$ contact
With switching position indicator
Electrical features for $5 \mu \mathrm{~m}$ gold-plating, type addition ...AU
Switching voltage 20 mV ... 42 V AC/DC
Switching current $1 \mathrm{~mA} . . .250 \mathrm{~mA}$
Versions with Faston terminals: use partially or all-insulated Faston clamps
Overvoltage category II ( 2.5 kV ), pollution degree 2 for:

- illuminated versions (24 V LED)
- versions with 3rd contact
- versions with NO contacts (I, II, OI)

FRVKP... emergency-stop for hygienic areas
Tightening torque (fixing nut): $1.0 \ldots 1.7 \mathrm{Nm}$
Degree of protection: IP66/IP67/IP69k*1)
Approvals: CE, DGUV-Test
Mechanical life: $20.000\left(20^{\circ} \mathrm{C}\right)$
$>6050\left(-25^{\circ} \mathrm{C}\right)$
$>6050\left(+70^{\circ} \mathrm{C}\right)$
B10d/Ld: 150.000
${ }^{*} 1$ ) Limitation: nozzle distance $>250 \mathrm{~mm}$. Standard requirement acc. to ISO 20653:2013-02 (IPX9K) 100 - 150 mm
Use in hygienic areas:

- Permanently suitable from $-30^{\circ} \mathrm{C}$ to $+50^{\circ} \mathrm{C}$ and with food contact temporarily up to $+70^{\circ} \mathrm{C}$
- Migration testing (OML) according to EU regulation no.10/2011 using ethanol (50\%) and acetic acid (3\%) at $40^{\circ} \mathrm{C} / 1 \mathrm{~h}$, ethanol $(95 \%)$ at $40^{\circ} \mathrm{C} / 0.5 \mathrm{~h}$
- The emergency stop should be installed in a way to exclude a deposit of residues in its active and non-active state

FRVK...Z ...emergency-stop for base-plate mounting
FRVK...LZ ...emergency-stop for base-plate mounting with height compensation for Shortron
Approvals: CE
The relating contact block (PTS...) is being plugged into the neck of the actuator head.
Spacer sleeves ensure the correct distance between PCB and mounting plate.
The screws must be secured against loosening.

FRVK..R... ...red LED
FRVK ...RO ... 0 ohm series resistor, with protective diode (series-connected)
Attention: The LED must not be operated without series resistor.
(Do not connect terminals X1-X2 directly to voltage)
Observe LED data!
LED cut-off voltage: max. 70 V (with protective diode)
If LED, max: 30 mA
Uf LED, typical: white: $3.2 \mathrm{~V}(20 \mathrm{~mA})$ red: $2.0 \mathrm{~V}(20 \mathrm{~mA})$
FRPVK... $\operatorname{FRPVK(Z),~FRPVK(O)(OO)(OI)(LOO)~FRPVK(OO)(OOI)P~}$
Release: pull to release
Max. traction: 160 N
Life time: 30.000
B10d/Ld: 170.000/20\%

## Dato acc. to Ul

Rating contact block

Lamp rating
B300, 24 V DC/3
Gold: 42 V DC/ 100 mA

NEMA TYPE LED: $30 \mathrm{~V} \mathrm{AC/DC}(4 \mathrm{~mA}$ at 24 V$)$

4 x indoor (front face)


