Emergency-stop head for hygienic applications for $\mathbf{1 6 . 2} \mathbf{~ m m}$ mounting depth


## Technical Data-Lamp

 MADE IN GERMANATLamp socket
none, with integrated 3 mm LED


| Additoncl dof |  |
| :--- | :--- |
| 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 $20 \mathrm{mV} \ldots 42 \mathrm{~V}$ 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 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 | Silver: $\mathrm{B} 300,24 \mathrm{~V} \mathrm{DC/3} \mathrm{~A}$ <br> Gold: $42 \mathrm{~V} \mathrm{DC/100} \mathrm{~mA}$ |
| :--- | :--- |
| Lamp rating | LED: $30 \mathrm{~V} \mathrm{AC/DC}(4 \mathrm{~mA}$ at 24 V$)$ |
| NEMA TYPE | $4 \times$ indoor (front face) |



