





### Emergency-stop



General Data	
Type reference	FR(P)VK(Y1)(P)(L)(R)(O)(OO)(OI)(S)(OOO)(OOI)(OII)(Z)(LZ)(P)(_A U)(_R0)
Description	Emergency-stop head, foolproof
Approvals	CCC, CE, cURus, TÜV_Süd, UKCA
Contact type	1 NC / 2 NC / 3 NC / 1 NC+1 NO / 2 NC+1 NO / 1 NC+2 NO
Degree of protection	IP65 / IP67
Connection type	Faston terminals 2.8 x 0.8 mm / PCB-mount terminals
Contact material	AgNi / AgNi, gold-plated 5µm (_AU)
Max. storage temperature	-40°C 80°C
Max. operating temperature	-25°C 70°C
Mechanical life	50,000 switching cycles
Electrical life (rated load)	50,000 switching cycles at rated load
Contact resistance NO	< 50 mOhm (new state)
Contact resistance NC	< 50 mOhm (new state)
Bouncing time NO	< 10ms
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 B300	DC13 Q300
Rated insulation voltage Ui	250 V	250 V
Rated operating voltage Ue	240 V / 120 V	250 V / 125 V / 60 V / 24 V
Rated operating current le	1.5 A / 3 A	0.27 A / 0.55 A / 1 A / 2 A
Breaking capacity	10le	1,1le
Continuous thermal current	5 A	-

## Technical Data - Lamp

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Lamp socket	none, with integrated 3 mm LED
Max. lamp voltage	30 V AC/DC
Max. lamp output	4 mA at 24 V DC)
Definition	X1anode, X2cathode

#### **Additional data**

Mounting aperture	22.3 mm
Tightening torque (mounting nut)	1.3 1.9 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

O = NC contact; I = NO contact With switching position indicator

Electrical features for 5µm gold-plating, type addition ...AU Switching voltage 20mV ... 42V AC/DC Switching current 1mA ... 250mA

Versions with Faston terminals: use partially or all-insulated Faston clamps

- Overvoltage category II (2.5kV), 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 ... 1.7 Nm Degree of protection: IP66/IP67/IP69k\*1) Approvals: CE, DGUV-Test Mechanical life: 20.000 (20°C) >6050 (-25°C) >6050 (+70°C) 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°C to +50°C and with food contact temporarily up to +70°C

- Migration festing (OML) according to EU regulation no.10/2011 using ethanol (50%) and acetic acid (3%) at 40°C/1h, ethanol (95%) at 40°C/0.5h

- 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.

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The screws must be secured against loosening.

FRVK..R... ...red LED

FRVK...R0 ...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: 3.2V (20mA) red: 2.0 V (20mA)

FRPVK... FRPVK(Z), FRPVK(O)(OO)(OI)(LOO) FRPVK(OO)(OOI)P Release: pull to release Max. traction: 160N Life time: 30.000 B10d/Ld: 170.000/20%

#### Data acc. to UL

Rating contact block

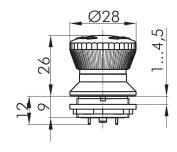
Silver: B300, 24 V DC/3 A Gold: 42 V DC/100 mA

LED: 30 V AC/DC (4 mA at 24 V)

Lamp rating NEMA TYPE

4x indoor (front face)





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