

## Emergency-Stop FRVKOOI

### General Data

Type reference	FRVK(P)(L)(R)(O)(OO)(OOO)(OI)(OOI)(OII)(Z)(LZ)(P)(_AU)(_R0)
Description	Emergency-stop Head, foolproof
Approvals	CCC, CE, DGUV_Test, TÜV_Süd, UR
Nature of contact	1NC / 2NC / 3 NC / 1 NC+1NO / 2NC+1NO / 1NC+2NO
Degree of protection	IP65 / IP67
Connection type	Faston terminals 2.8x0.8 mm / PCB-mount terminals
Contact material	AgNi / AgNi, gold-plated 5µm
Max. storage temperature	-40°C ... 80°C
Max. operating temperature	-25°C ... 70°C
Mechanical life	50,000
Electrical life (rated load)	50,000 at rated load
Contact resistance NO	< 50 mOhm (new state)
Contact resistance NC	< 50 mOhm (new state)
Bouncing time NO	< 10 ms
Bouncing time NC	< 10 ms
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	240V / 120V	250V / 125V / 60V / 24V
Rated operating current Ie	1.5A / 3A	0.27 A / 0.55 A / 1 A / 2 A
Breaking capacity	10Ie	1,1Ie
Continuous thermal current	5A	

### Technical Data - Lamp

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	X1...anode, X2...cathode

## Additional Data

Mounting aperture	22.3mm
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	250,000
Pollution degree	3

## Note

with switching position indicator

Electrical Features - 5µm gold-plating (type addition ...AU)  
 Switching voltage 20mV ... 42V AC/DC  
 Switching current 1mA ... 250mA

For the version with Faston terminals use partially or fully insulated Faston clamps.  
 Illuminated version (24V-LED): overvoltage category II (2.5kV), pollution degree 2  
 Version with 3 contacts: overvoltage category II (2.5 kV), pollution degree 2

FRVKP... emergency stop for hygienic areas  
 Tightening torque (mounting nut): 1.0 ... 1.7 Nm  
 Protection degree: IP66/IP67/IP69k  
 Approvals: CE, DGUV-Test  
 Mechanical life: 20,000 (20°C)  
 >6050 (-25°C)  
 >6050 (+70°C)  
 B10d/Ld: 150,000/20% (20°C)

Use in hygienic areas:  
 - permanently suitable from -30°C to +40°C and with food contact temporarily up to +70°C  
 - migration testing (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 the Shortron series  
 Approvals: CE  
 Snap-fit the corresponding contact block (PTS...) to the actuator neck.  
 Spacer sleeves ensure the correct distance between PCB and mounting plate. 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 a series resistor.

(Do not connect terminals X1-X2 directly to voltage)

Observe LED data!

LED reverse voltage: max. 70 V (incl. protective diode)

If LED, max: 30 mA

Uf LED, typical: white: 3.2V (20mA) red: 2.0 V (20mA)

### Test Data acc. to UL 508

Rating contact block

Silver: B300, 24V DC/3A

Gold: 42V DC/100mA

Lamp rating

LED: 30 Vac/Dc (4 mA at 24 V)

Fotografia:



Dimensiones:

