

## FRVKOO

..20

### Emergency-stop with 4 pole M12 connector



#### General Data

|                              |   |
|------------------------------|---|
| Type reference               | FRVKOO_Cyxx (y...version, xx...pinout)                  |
| Description                  | Emergency-stop, foolproof with integrated M12 connector |
| Approvals                    | CE  |
| Contact type                 | 2NC   |
| Degree of protection         | IP65 / IP67 (in the front); IP65 / IP67 (on the rear)   |
| Connection type              |   |
| 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 NC        | < 50 mOhm (new state)                                   |
| 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              | DC13           |
| Rated insulation voltage Ui | 250 V             | 250 V          |
| Rated operating voltage Ue  | 35 V              | 35 V           |
| Rated operating current Ie  | 4 A               | 2 A            |
| Breaking capacity           | 10Ie              | 1,1Ie          |
| Continuous thermal current  | 4 A               | 4 A            |

#### Additional Data

|                                  |                              |
|----------------------------------|------------------------------|
| Mounting aperture                | 22.3 mm                      |
| Tightening torque (mounting nut) | 1.0 ... 1.7 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                                  |
| Rated impulse voltage | 2.5 kV                                   |
| Material group        | I  |
| Overvoltage category  | II                                       |
| Pollution degree      | 2  |
| Operating force       | approx. 30N (at 20mm/min)                |

## Note

With switching position indicator

Electrical features gold-plated version (5µm gold-plating)  
Switching voltage 20mV ... 35V AC/DC  
Switching current 1mA ... 100mA  
Switching capacity 250 mW

...Cyxx

"y" version

0 = 4-pole connector, silver contact

3 = 4-pole connector, gold-plated contact

"xx" pin assignment

xx Pin 1 Pin 2 Pin 3 Pin 4 Type

01 NC (1) NC (1) NC (2) NC (2) 2 NC

Safety instructions / mounting instructions

- the connector must not be connected or disconnected under load

- the single connector pin may be loaded with max. 4A



Illustration:



Dimensional drawing:

