

FRVKOO_C001

19.03.2024

Emergency-stop with 4-pole M12 connector



General Data

Type reference:	FRVKOO_C001
Description:	Emergency-stop, foolproof with integrated M12 connector
Approvals:	CE, cURus, TÜV_Süd, UKCA
Contact type:	2 NC
Degree of protection:	IP65 / IP67 (in the front); IP65 / IP67 (on the rear with plugged-in M12 connector)
Connection type:	4-pole M12 connector (integrated), A coded
Contact material:	AgNi
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 NC:	< 50 mOhm (new state)
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	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
Tightening torque (M12-connector):	max. 0.4 Nm
Ld:	20% (NC)
B10d [cycles]:	250,000
Rated impulse voltage:	2,5 kV (contact block)
Material group:	I
Overvoltage category:	II
Pollution degree :	2
Operating force:	approx. 30 N (at 20 mm/min)

Note

○ = NC contact
- with switching position indicator

Pin assignment:

Pin 1	Pin 2	Pin 3	Pin 4	Type
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. 4 A
- not suitable for use under water
- when used outdoors, the M12 connections must be protected against corrosion separately

Conditional short circuit I_q: 1000 A
Short circuit means (recommendation): safety fuse 4A gG

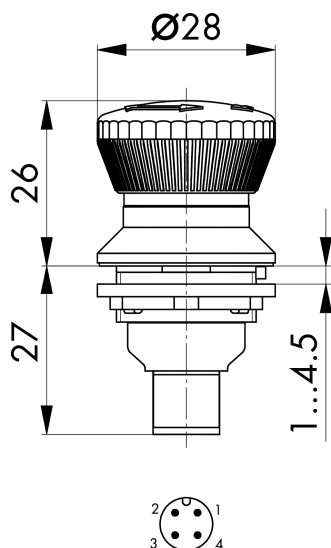
Data acc. to UL/IEC 60947-5-5

Ratings: 35 V dc/2 A, 35 V ac/3 A
I_{th} 3 A, U_i 250 V

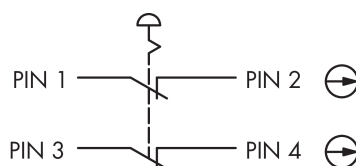
Torque: 1.0 ... 1.7 Nm (head nut)

Enclosure Type: Type 4X (indoor) front face

Dimensional drawing



Circuit diagram



Drilling pattern

