

FRVKOOI\_C112

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**Emergency-stop with 5-pole M12 connector AIDA**



**General Data**

Type reference	FRVKOOI_C112
Description	Emergency-stop, foolproof with integrated M12 connector
Approvals	CE, cURus, TÜV_Süd, UKCA
Contact type	2 NC + 1 NO
Degree of protection	IP65 / IP67 (in the front); IP65 / IP67 (on the rear with plugged-in M12 connector)
Connection type	5-pole M12 connector (integrated), A coded, AIDA
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 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	DC13
Rated insulation voltage $U_i$	50 V	50 V
Rated operating voltage $U_e$	35 V	35 V
Rated operating current $I_e$	2 A	2 A
Breaking capacity	10I <sub>e</sub>	1,1I <sub>e</sub>
Continuous thermal current	2 A	2 A

**Additional data**

Mounting aperture	22.3 mm
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Tightening torque (mounting nut)	1.0 ... 1.7 Nm
Tightening torque (M12-connector)	max. 0.4 Nm
Mounting position	any
Standards	EN 60947-5-1, EN 60947-5-5, EN ISO 13850
Release	twist release, left or right
Ld	20% (NC)
B10d [cycles]	226,000
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

O = NC contact  
- with switching position indicator

Safety instructions / mounting instructions  
- the connector must not be connected or disconnected under load  
- the single connector pin may be loaded with max. 2 A  
- not suitable for use under water  
- when used outdoors, the M12 connections must be protected against corrosion separately

Conditional short circuit Iq: 1000 A  
Short circuit means (recommendation): safety fuse 2A gG

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

Ratings	35 V AC/DC 2 A Ith 2 A, Ui 50 V
Torque	1.0 ... 1.7 Nm (head nut)
Enclosure Type	Type 4X (indoor) front face



