

FRTOI_C008

16.01.2023

Contact block with 4-pole M12 connector, momentary



General Data

Type reference	FRTOI_C008
Description	Contact block with M12 connector, detent collar
Approvals	CE, UKCA
Contact type	1 NC + 1 NO
Degree of protection	IP00
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	600,000 switching cycles
Electrical life (rated load)	600,000 switching cycles at rated load
Contact resistance NO	< 50 mOhm (new state)
Contact resistance NC	< 50 mOhm (new state)
Min. current	6 mA
Min. voltage	5 V
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	1 A	1 A
Breaking capacity	-	-
Continuous thermal current	1 A	1 A

Additional data



Mounting position	any
Standards	EN 60947-5-1
Tightening torque (M12-connector)	max. 0.4 Nm
B10d [cycles]	depending on the pushbutton/switch head
Material group	I
Overvoltage category	II
Pollution degree	2

Note

*1) values and data that may need to be determined specifically:

Electrical/mechanical lifetime:

Pushbutton, illuminated pushbutton: 1 million switching cycles

Selector/key switches: 30.000 switching cycles

Emergency-stop: 50.000 switching cycles

Minimum current: 10 mA

Minimum voltage: 10 V

O = NC contact; I = NO contact

Pin assignment:

Pin 1 Pin 2 Pin 3 Pin 4 Type

COM NC n.c. NO 1 NC 1 NO

Safety instructions / mounting instructions

- the connector must not be connected or disconnected under load
- the single connector pin may be loaded with max. 1 A

