

FRTOI_C118

16.01.2023

Contact block with 5-pole M12 connector, momentary



General Data

Type reference	FRTOI_C118
Description	Contact block with M12 connector, detent collar
Approvals	CE, UKCA
Contact type	1 NC + 1 NO
Degree of protection	IP00
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	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	2 A	2 A
Breaking capacity	-	-
Continuous thermal current	2 A	2 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

O = NC contact; I = NO contact

Pin assignment:
 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Type
 NC NO n.c. NC NO 1 NC 1 NO (AIDA)

Safety instructions / mounting instructions

- the M12 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
- there may not be any mechanical load on the M12 connector, ensure that there is sufficient strain relief!
- observe the operating instructions

