

FRTL_I_C005

16.01.2023

Illuminated contact block with 4-pole M12 connector, momentary



General Data

Type reference	FRTL_I_C005
Description	Contact block with M12 connector, detent collar
Approvals	CE, UKCA
Contact type	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)
Min. current	6 mA
Min. voltage	5 V
Bouncing time NO	< 10ms

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	4 A	2 A
Breaking capacity	-	-
Continuous thermal current	4 A	4 A

Technical Data - Lamp

Lamp socket	none, with integrated 3 mm LED white
Max. lamp voltage	30 V AC/DC
Max. lamp output	14 mA (at 24 V DC)



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

I = NO contact

Pin assignment:
 Pin 1 Pin 2 Pin 3 Pin 4 Type
 NO NO LED - LED + 1 NO + LED

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

