

Datasheet - IFL 2-12-10P

Inductive proximity switch / Housing construction form: cylinder, thread / IFL - M12

Preferred typ



- Design M12
- Metal enclosure
- DC 3-wire

(Minor differences between the printed image and the original product may exist!)

Ordering details

Product type description	IFL 2-12-10P
Article number	101097496
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EAN code	4030661017525

Global Properties

Product name	IFL - M 12
Standards	IEC/EN 60947-5-2; DIN VDE 0660-208
Compliance with the Directives (Y/N)	CE
Operating resource protection class	Yes
Materials	None
- Material of the housings	Brass
- Material of the nuts	Brass, nickel-plated
- Material of the cable mantle	PVC
- Material of the active surface	Plastic
Housing coating	nickel-plated
Housing construction form	cylinder, thread
Weight	70 g

Mechanical data

Design of electrical connection	Cable
Cable length	2 m
Conductor with strain relief	No
Conductors	3 x 0,14 mm ²
mechanical installation conditions	flush
Switch distance	2 mm
Reduction factor 1 met (Y/N)	No
Protection circuit	inductive interference protection, Protection against polarity reversal, short-circuit and overload proof
Pressure resistant (Y/N)	No
Tightening torque for nuts	A/F 17 max. 1500 Ncm
- in the shell core area: max. 500 Ncm	

Ambient conditions

Ambient temperature	
- Min. environmental temperature	-25 °C
- Max. environmental temperature	+70 °C
Protection class	IP67 to IEC/EN 60529

Electrical data

Design of control element	Normally open contact (NO)
Number of wire	3 piece
Voltage type	DC, direct current
Supply voltage	
- Min. supply voltage	10 V
- Max. supply voltage	30 V
Switch frequency	approx. 1000 Hz
Voltage drop U _d	approx. 1.2 V (200 mA)
Operating current I _e	200 mA
No-load current I ₀	approx. 3 mA (24 V)

Outputs

Design of control output	PNP
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LED switching conditions display

LED switching conditions display (Y/N)	Yes
- yellow LED	

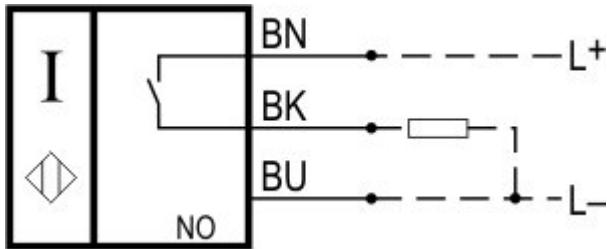
ATEX

Explosion protection categories for gases	None
Explosion protected category for dusts	None

Dimensions

Dimensions of the sensor	
- Length of sensor	50 mm
- Diameter of sensor	M12

Diagram



Note Diagram

- ⊕ positive break NC contact
- ⊕ active
- ⊗ no active
- Normally-open contact
- +○ Normally-closed contact

Ordering code

IFL (1)-(2)(3)-(4)(5)(6)(7)(8)-(9)

(1)

- 2 Switch distance 2 mm
- 4 Switch distance 4 mm
- B Quasi-embeddable

(2)

- 12 cylinder, thread M12, Metal film
- 120 cylinder, thread M12, Plastic

(3) Included in standard version Design

- without miniature body
- M
- L Long design

(4)

- 01 Opener (NC)
- 10 Normally open contact (NO)
- 10/01 Normally open contact (NO) / Opener (NC) with Wiring compartment
- 11 Normally open contact (NO) / Opener (NC) antivalent

(5)

- without Cable
- ST Connector
- T Conductor with strain relief

(6)

- without Included in standard version Plug-in connection
- 2 Alternative Plug-in connection

(7)

- N n-type
- P p-type

(8)

- K Max. fuse rating
- 1 pulsed

(9)

- 2033 Stainless steel enclosure

Documents

Mounting and wiring instructions (de, en, fr, it) 79 kB, 05.10.2010

Code: m_fl1p01

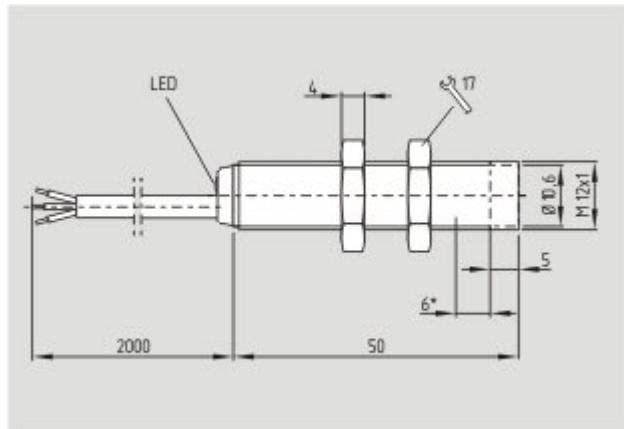
CCC certification (en) 357 kB, 17.01.2012

Code: q_iflp02

CCC certification (cn) 349 kB, 17.01.2012

Code: q_iflp03

Images



Dimensional drawing (basic component)

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The data and values have been checked thoroughly. Technical modifications and errors excepted.

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