

## Datasheet - IFL 2-12-10N

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 2-12-10N
Article number	101101358
EAN code	4030661008851
eCl@ss	27-27-01-01

### Global Properties

Product name	IFL - M 12
Standards	IEC/EN 60947-5-2; DIN VDE 0660-208
Compliance with the Directives (Y/N) 	Yes
Operating resource protection class	None
Materials	
- Material of the housings	Brass
- Material of the nuts	nickel plated brass
- 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	2 x 0,5 mm <sup>2</sup>
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

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

## Electrical data

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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. 800 Hz
Voltage drop U <sub>d</sub>	approx. 1.2 V (200 mA)
Operating current I <sub>e</sub>	200 mA
No-load current I <sub>0</sub>	approx. 3 mA (24 V)

## Outputs

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Design of control output	NPN
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## LED switching conditions display

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

## ATEX

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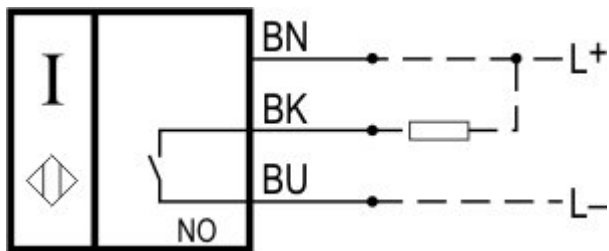
Explosion protection categories for gases	None
Explosion protected category for dusts	None

## Dimensions

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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)

without Included in standard version Design  
M miniature body  
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

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

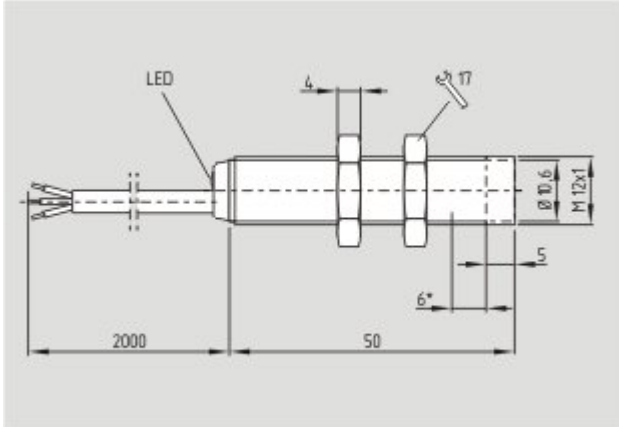
Code: m\_fl1p01

**Declaration of conformity** (en, de) 232 kB, 05.11.2013

Code: \_\_iflp01

## Images

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Dimensional drawing (basic component)

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## System components

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### Mounting accessories



#### 101068880 - MOUNTING CLAMP H 12

- For a smooth fitting of the proximity switches with cylindric shape Ø 12 mm or thread M12

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

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