

## Datasheet - IFL 2-12-10

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



- Design M12
- Metal enclosure
- AC 2-wire

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

### Ordering details

Product type description	IFL 2-12-10
Article number	101141514
EAN code	4030661122168
eCl@ss	27-27-01-01


### Approval

Approval



CCC

### 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	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	100 g
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## Mechanical data

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Design of electrical connection	Cable H03VV-F
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
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	2 piece
Voltage type	AC, alternating current
Supply voltage	
- Min. supply voltage	15 V
- Max. supply voltage	250 V
Rated supply frequency	45 ... 65 Hz
Switch frequency	approx. 10 Hz
Voltage drop U <sub>d</sub>	approx. 3.5 V (250 V / V 200 mA)
Rated impulse withstand voltage U <sub>imp</sub>	4 kV
Residual current I <sub>r</sub>	1 mA
Minimum operating current	8 mA
Operating current I <sub>e</sub>	200 mA

## Outputs

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Design of control output	Two-wire
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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

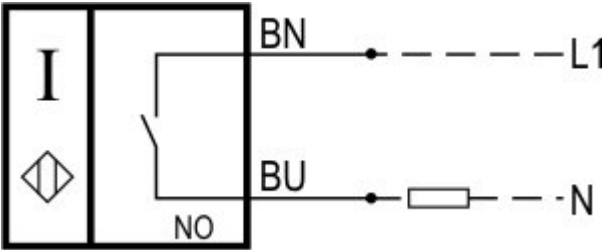
Dimensions of the sensor

- Length of sensor

71 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

1

Max. fuse rating  
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

**CCC certification** (cn) 177 kB, 03.08.2015

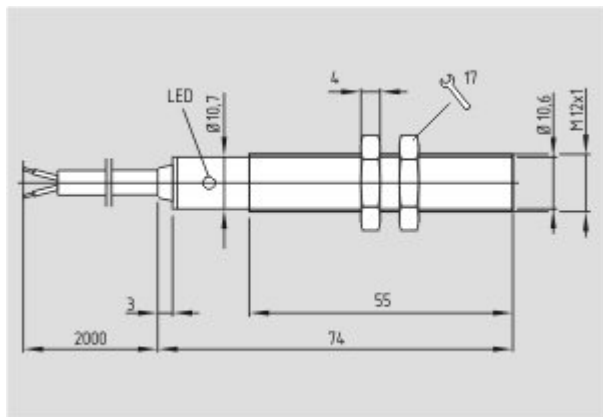
Code: q\_iflp03

**CCC certification** (en) 177 kB, 03.08.2015

Code: q\_iflp02

## Images

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Dimensional drawing (basic component)

## 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