

Datasheet - IFL 2-12M-10N

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




- Design M12
- Metal enclosure
- DC 3-wire
- miniature body

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

Ordering details

Product type description	IFL 2-12M-10N
Article number	101083091
EAN code	4030661018416
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	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	65 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. 800 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	NPN
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LED switching conditions display

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

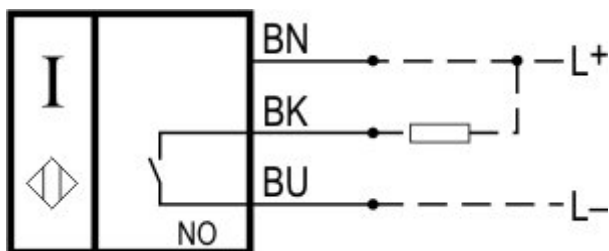
ATEX

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

Dimensions


Dimensions of the sensor	
- Length of sensor	31.5 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

Operating instructions (en) 128 kB, 31.08.2016

Code: mrl_ifl-allgemein_en

Operating instructions (pl) 137 kB, 21.10.2016

Code: mrl_ifl-allgemein_pl

Operating instructions (it) 108 kB, 21.10.2016

Code: mrl_ifl-allgemein_it

Operating instructions (es) 110 kB, 21.10.2016

Code: mrl_ifl-allgemein_es

Operating instructions (de) 131 kB, 31.08.2016

Code: mrl_ifl-allgemein_de

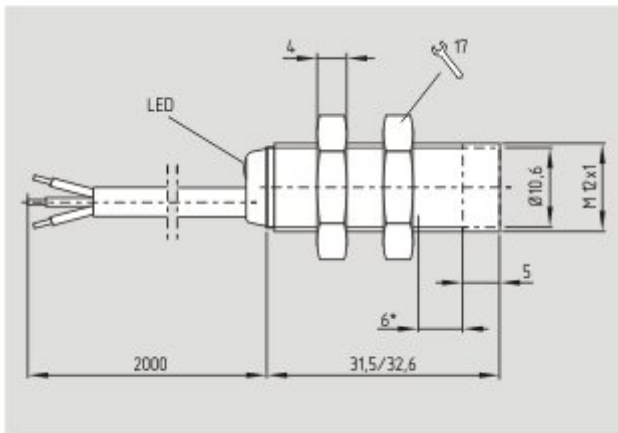
Operating instructions (fr) 110 kB, 21.10.2016

Code: mrl_ifl-allgemein_fr

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

Code: __iflp01

Images



Dimensional drawing (basic component)

System components

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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