

## Datasheet - IFL 8-180L-10P

Inductive proximity switch / Housing construction form: cylinder, thread / IFL - M18



Preferred typ



- Design M 18 x 1
- Thermoplastic enclosure
- DC 3-wire
- Long design
- Double-insulated

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

### Ordering details

Product type description	IFL 8-180L-10P
Article number	101124142
EAN code	4030661050522
eCl@ss	27-27-01-01

### Global Properties

Product name	IFL - M18
Standards	IEC/EN 60947-5-2; DIN VDE 0660-208
Compliance with the Directives (Y/N)	Yes
Operating resource protection class	Protection class 2
Materials	
- Material of the housings	Plastic
- Material of the nuts	Plastic
- Material of the washer	perbunan
- Material of the cable mantle	PVC
- Material of the active surface	Plastic
Housing coating	None
Housing construction form	cylinder, thread
Weight	95 g

### Mechanical data

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Design of electrical connection	Cable
Cable length	2 m
Conductor with strain relief	No
Conductors	3 x 0,34 mm <sup>2</sup>
mechanical installation conditions	not flush
Switch distance	8 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 24 max. 300 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 U <sub>s</sub>	
- Min. supply voltage	10 V
- Max. supply voltage	30 V
Switch frequency	approx. 400 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. 3.4 mA (24 V)

### Outputs

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Design of control output	PNP
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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

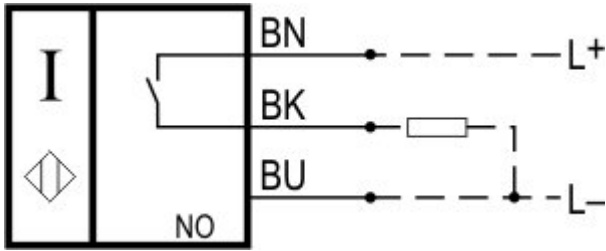
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Dimensions of the sensor	
- Length of sensor	79 mm
- Diameter of sensor	M18






## notice

Instead of nuts, a mounting clamp can be provided.

## 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)

(1)

5 Switch distance 5 mm  
8 Switch distance 8 mm  
10 Switch distance 10 mm

(2)

18 cylinder, thread M18, Metal film  
180 cylinder, thread M18, 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  
A Alternating current/direct current AC/DC  
D DC 2-wire

(6)

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

(7)

N n-type  
P p-type

(8)

2033

2130

Stainless steel enclosure

Max. +130°C, without LED switching conditions display

## Documents

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**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** (pt) 109 kB, 06.04.2017

Code: mrl\_ifl-allgemein\_pt

**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

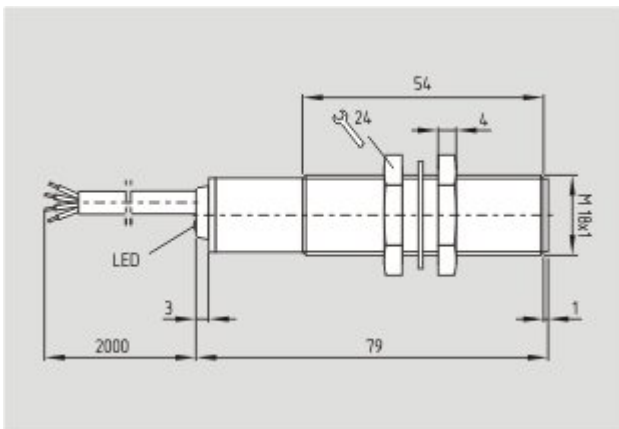
Code: mrl\_ifl-allgemein\_fr

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

Code: \_\_iflp01

## Images

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Dimensional drawing (basic component)

## System components

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### Mounting accessories

#### 101068879 - MOUNTING CLAMP H 18

- For a smooth fitting of the proximity switches with cylindrical shape  $\varnothing$  18 mm or thread M18



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

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