

## Datasheet - IFL 8-180M-10STP

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



Preferred typ




- Design M 18 x 1
- Thermoplastic enclosure
- DC 3-wire
- Connector M18
- miniature body

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

### Ordering details

Product type description	IFL 8-180M-10STP
Article number	101085339
EAN Code	4030661018270
eCl@ss	27-27-01-01

### Global Properties

Permanent light	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 active surface	Plastic
Housing coating	None
Housing construction form	cylinder, thread
Weight	20

### Mechanical data

Design of electrical connection	Connector M18
Conductor with strain relief	No
mechanical installation conditions	not flush
Switch distance $S_n$	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
- Max. environmental temperature	+70
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
Voltage type	DC, direct current
Supply voltage $U_B$	
- Min. supply voltage	10
- Max. supply voltage	30
Switch frequency	approx. 400 HZ
Voltage drop $U_d$	approx. 1.2 V (200 mA)
Operating current $I_e$	200 mA
No-load current $I_o$	approx. 3 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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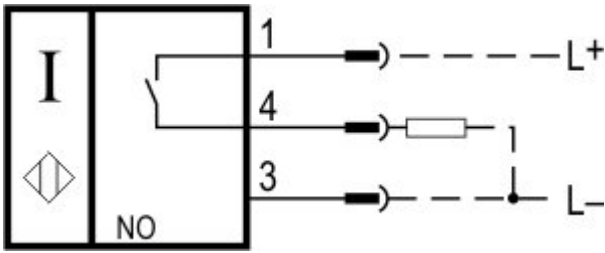
Dimensions of the sensor	
- Length of sensor	50.6
- Diameter of sensor	M18

## notice






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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 Stainless steel enclosure  
 2130 Max. +130°C, without LED switching conditions display

## Documents

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**Operating instructions** (nl) 134 kB, 01.08.2018

Code: mrl\_ifl-allgemein\_nl

**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** (cn) 177 kB, 05.05.2017

Code: mrl\_ifl-allgemein\_cn

**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) 91 kB, 13.04.2017

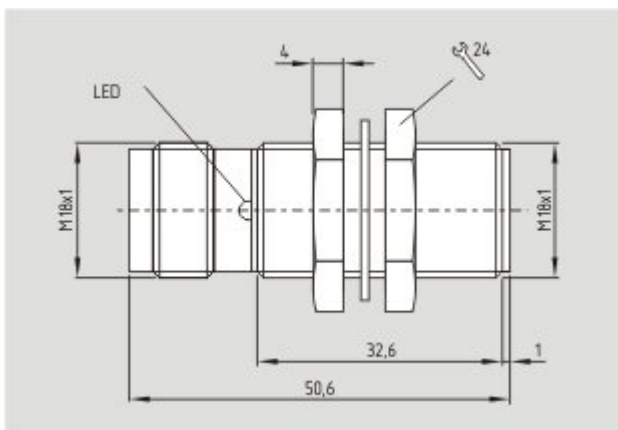
Code: konfi\_ifl\_en

**Declaration of conformity** (de) 96 kB, 01.07.2016

Code: konfi\_ifl\_de

## 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 cylindric 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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