

## Datasheet - IFL 5-18L-11P

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



☒ Preferred typ



- Design M 18 x 1
- Metal enclosure
- DC 4-wire
- Long design

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

### Ordering details

Product type description	IFL 5-18L-11P
Article number	101138966
EAN code	4030661117454
eCl@ss	27-27-01-01


### Approval

Approval



CCC

### 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	None
Materials	
- Material of the housings	Brass
- Material of the nuts	Brass
- Material of the cable mantle	PVC
- Material of the active surface	Plastic
Housing coating	nickel-plated

Housing construction form	cylinder, thread
Weight	125 g

## Mechanical data

Design of electrical connection	Cable
Cable length	2 m
Conductor with strain relief	No
Conductors	4 x 0,25 mm <sup>2</sup>
mechanical installation conditions	flush
Switch distance	5 mm
Reduction factor 1 met (Y/N)	No
Protection circuit	inductive interference protection, Protection against polarity reversal
Pressure resistant (Y/N)	No
Tightening torque for nuts	A/F 24 max. 1800 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) and Opener (NC) (antivalent)
Number of wire	4 piece
Voltage type	DC, direct current
Supply voltage U <sub>B</sub>	
- Min. supply voltage	10 V
- Max. supply voltage	60 V
Switch frequency	approx. 500 Hz
Voltage drop U <sub>d</sub>	approx. 1.5 V (400 mA)
Operating current I <sub>e</sub>	400 mA
No-load current I <sub>0</sub>	approx. 5.5 mA (24 V)

## Outputs

Design of control output	PNP
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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

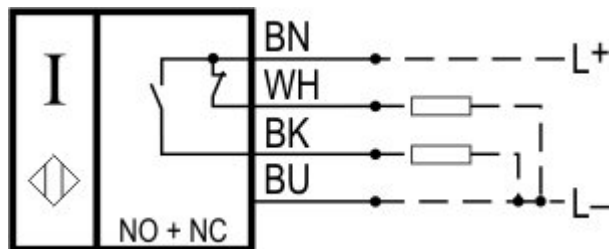
Dimensions of the sensor
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- Length of sensor	79 mm
- Diameter of sensor	M18

### 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 suffix

The applicable ordering suffix is added at the end of the part number of the safety switch.

Order example: IFL 5-18L-11P-**1665-1**

....**1665-1**

short-circuit and overload proof  
Operating current  $I_e$ : 300 mA  
Voltage drop  $U_d$ : approx. 1 V (300 mA)

### 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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**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

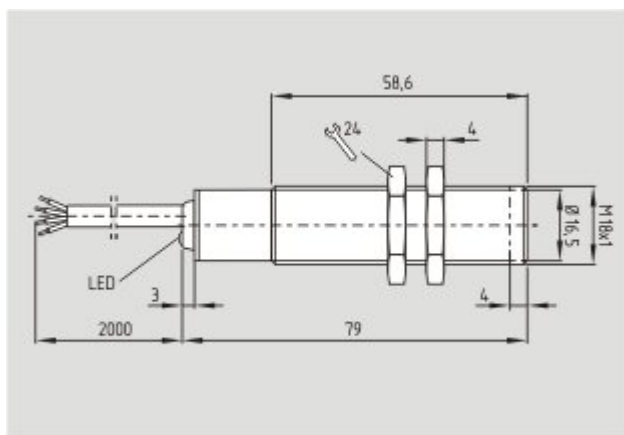
Code: q\_iflp03

**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

#### 101068879 - MOUNTING CLAMP H 18

- For a smooth fitting of the proximity switches with cylindric shape Ø 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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