

## Datasheet - IFL 15-300-10/01

Inductive proximity switch / Housing construction form: cylinder, thread / IFL - M30



Preferred typ



- Design M30
- 1 Cable entry M 16 x 1.5
- Thermoplastic enclosure
- AC 2-wire
- Double-insulated
- Wiring compartment

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

### Ordering details


Product type description	IFL 15-300-10/01
Article number	101060599
EAN code	4030661047829
eCl@ss	27-27-01-01

### Approval

Approval



### Global Properties

Product name	IFL - M30
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	70 g

## Mechanical data

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Design of electrical connection	Screw connection
Conductor with strain relief	No
Cable section	
- Min. Cable section	
- Max. Cable section	1 x 1.5 mm <sup>2</sup>
mechanical installation conditions	not flush
Switch distance	15 mm
Reduction factor 1 met (Y/N)	No
Protection circuit	inductive interference protection
Pressure resistant (Y/N)	No
Tightening torque for nuts	A/F 36 max. 400 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) or Opener (NC)
Number of wire	2 piece
Voltage type	AC, alternating current
Supply voltage U <sub>B</sub>	
- 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. 4.5 V (250 V / 200 mA)
Rated impulse withstand voltage U <sub>imp</sub>	4 kV
Residual current I <sub>r</sub>	1 mA
Minimum operating current	10 mA
Operating current I <sub>e</sub>	500 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

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## Dimensions of the sensor

- Length of sensor 118 mm
- Diameter of sensor M30

## notice

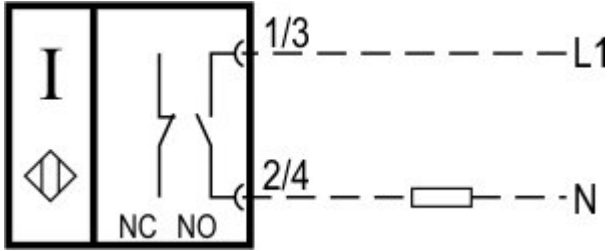
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Instead of nuts, a mounting clamp can be provided.

Programmable by repositioning the plug-in jumper at the terminal screws

## Diagram

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### Note Diagram

- positive break NC contact
- active
- no active
- Normally-open contact
- Normally-closed contact

## Ordering suffix

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

Order example: IFL 15-300-10/01-1522

...-1522

Operating current  $I_e$ : max. 150 mA  
Voltage drop  $U_d$ : approx. 7.5 V (150 mA)

## Ordering code

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IFL (1)-(2)(3)-(4)(5)(6)(7)-(8)

(1)	
10	Switch distance 10 mm
15	Switch distance 15 mm
(2)	
30	cylinder, thread M30, Metal film
300	cylinder, thread M30, Plastic
(3)	
without	Included in standard version Design
M	miniature body
L	Long design
(4)	
01	Opener (NC)
10	Normally open contact (NO)

<b>10/01</b>	Normally open contact (NO) / Opener (NC) with Wiring compartment
<b>11</b>	Normally open contact (NO) / Opener (NC) antivalent
<b>(5)</b>	
without	Cable
<b>ST</b>	Connector
<b>T</b>	Conductor with strain relief
<b>D</b>	DC 2-wire
<b>(6)</b>	
without	Included in standard version Plug-in connection
<b>2</b>	Alternative Plug-in connection
<b>(7)</b>	
<b>N</b>	n-type
<b>P</b>	p-type
<b>(8)</b>	
<b>1310</b>	Max. +110°C (Only for Alternating current AC)
<b>2130</b>	Max. +130°C, without LED switching conditions display
<b>1766</b>	Max. +110°C (Only for p-type or n-type)

## 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

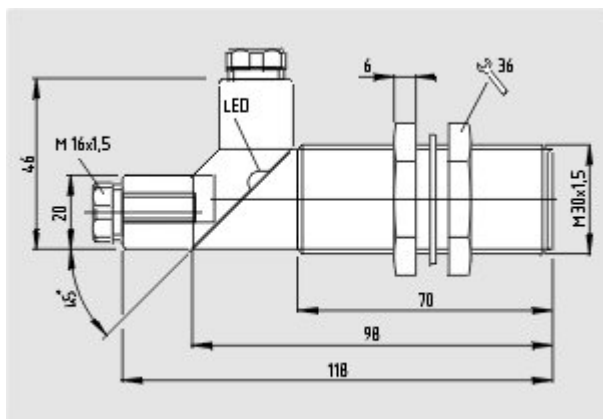
Code: q\_iflp03

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

Code: q\_iflp02

## Images

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Dimensional drawing (basic component)

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## System components

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### Mounting accessories



#### 101068520 - MOUNTING CLAMP H 30

- For a smooth fitting of the proximity switches with cylindric shape Ø 30 mm or thread M30

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

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