

## Datasheet - IFL 15-300L-11TP



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




- Design M30
- thermoplastic enclosure
- DC 4-wire
- Long design
- Double-insulated

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

### Ordering details

Product type description	IFL 15-300L-11TP
Article number	1126964
EAN code	4030661277981

### 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 cable mantle	PVC
- Material of the active surface	Plastic
Housing coating	None
Housing construction form	cylinder, thread
Weight	120 g

### Mechanical data

Design of electrical connection	Cable
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Cable length	2 m
Conductor with strain relief	Yes
Conductors	4 x 0,25 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, Protection against polarity reversal
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) 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. 100 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

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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

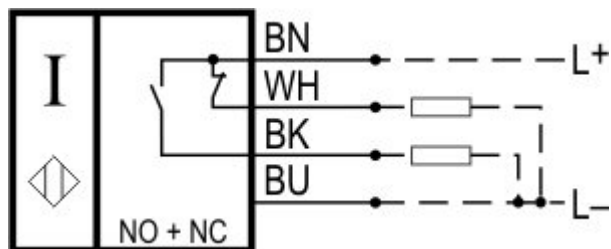
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Dimensions of the sensor	
- Width of sensor	28 mm
- Height of sensor	28 mm
- Length of sensor	100 mm
- Diameter of sensor	M30






### 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 15-300L-11TP-**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)

**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)

**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

**D** Specified for dielectricity

(6)

without Included in standard version Plug-in connection

2 Alternative Plug-in connection

(7)

N n-type

P p-type

(8)

1310 Max. +110°C (Only for Alternating current AC)

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

1766 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

[http://127.0.0.1/Bilddata/Naeherun/pdf/ifl/montage/m\\_fl1p01.pdf](http://127.0.0.1/Bilddata/Naeherun/pdf/ifl/montage/m_fl1p01.pdf)

**Declaration of conformity** (en, de) 93 kB, 25.10.2006

[http://127.0.0.1/Bilddata/Naeherun/pdf/ifl/konform/\\_\\_\\_iflp01.pdf](http://127.0.0.1/Bilddata/Naeherun/pdf/ifl/konform/___iflp01.pdf)

**CCC certification** (en) 276 kB, 04.12.2007

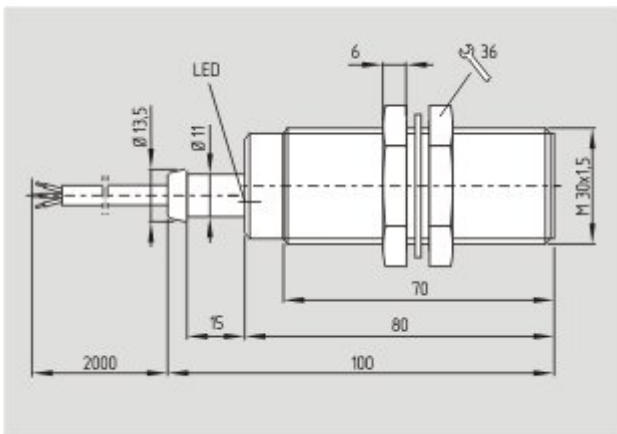
[http://127.0.0.1/Bilddata/Naeherun/pdf/ifl/zertifikat/q\\_iflp02.pdf](http://127.0.0.1/Bilddata/Naeherun/pdf/ifl/zertifikat/q_iflp02.pdf)

**CCC certification** (cn) 232 kB, 04.12.2007

[http://127.0.0.1/Bilddata/Naeherun/pdf/ifl/zertifikat/q\\_iflp03.pdf](http://127.0.0.1/Bilddata/Naeherun/pdf/ifl/zertifikat/q_iflp03.pdf)

## Images

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Dimensional drawing (basic component)

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

Generiert am 19.10.2010 - 13:06:55h Kasbase 1.4.0 DBI