

## Datasheet - IFL 15-300-01T

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



Preferred typ



- Design M30
- Thermoplastic enclosure
- AC 2-wire
- Double-insulated

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

### Ordering details

Product type description	IFL 15-300-01T
Article number	101060611
EAN Code	4030661047935
eCl@ss	27-27-01-01

### Approval

Approval



CCC

### Global Properties

Permanent light	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	125

## Mechanical data

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Design of electrical connection	Cable H03VV-F
Cable length	2
Conductor with strain relief	Yes
Conductors	2 x 0,5
mechanical installation conditions	not flush
Switch distance $S_n$	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
- Max. environmental temperature	+70
Protection class	IP67 to IEC/EN 60529

## Electrical data

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Design of control element	Opener (NC)
Number of wire	2
Voltage type	AC, alternating current
Supply voltage $U_B$	
- Min. supply voltage	15
- Max. supply voltage	250
Rated supply frequency	45 ... 65
Switch frequency	approx. 10 HZ
Voltage drop $U_d$	approx. 4.5 V (250 V / 200 mA)
Rated impulse withstand voltage $U_{imp}$	4 kV
Residual current $I_r$	1 mA
Minimum operating current $I_m$	10 mA
Operating current $I_e$	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

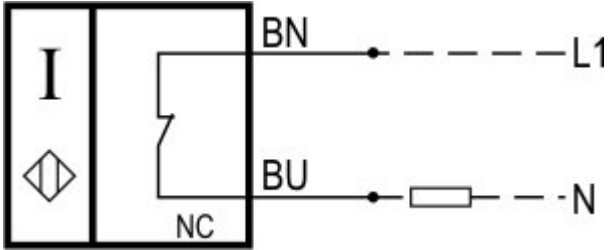
Dimensions of the sensor

- Length of sensor 98
- 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 15-300-01T-**1522**

...-**1522**

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

<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>	
<i>without</i>	Cable
<b>ST</b>	Connector
<b>T</b>	Conductor with strain relief
<b>D</b>	DC 2-wire
<b>(6)</b>	
<i>without</i>	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 ( <i>Only for Alternating current AC</i> )
<b>2130</b>	Max. +130°C, without LED switching conditions display
<b>1766</b>	Max. +110°C ( <i>Only for p-type or n-type</i> )

## 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

**CCC certification** (cn) 3 MB, 11.07.2018

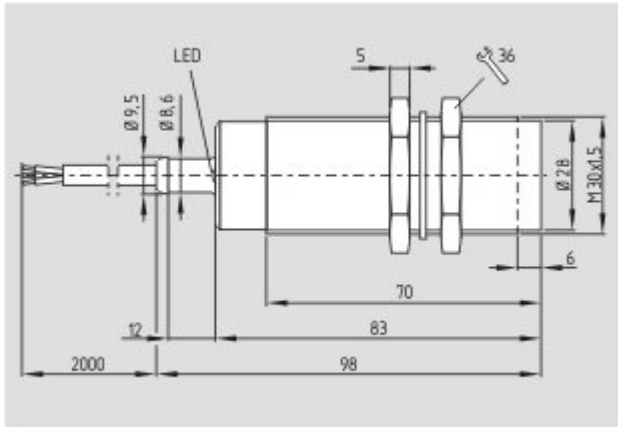
Code: q\_iflp03

CCC certification (en) 3 MB, 11.07.2018

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  $\varnothing 30$  mm or thread M30

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K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal

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

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