

## Datasheet - IFL 10-30M-10P

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



Preferred typ




- Design M30
- Metal enclosure
- DC 3-wire
- miniature body

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

### Ordering details

Product type description	IFL 10-30M-10P
Article number	101083094
EAN Code	4030661018515
eCl@ss	27-27-01-01

### 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	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	150

### Mechanical data

Design of electrical connection	Cable
Cable length	2
Conductor with strain relief	No
Conductors	3 x 0,34
Cable section	
- Min. Cable section	
- Max. Cable section	3 x 0,34
mechanical installation conditions	flush
Switch distance $S_n$	10 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 36 max. 3000 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. 200 HZ
Voltage drop $U_d$	approx. 1.2 V (200 mA)
Operating current $I_e$	200 mA
No-load current $I_0$	approx. 3.5 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	
- Length of sensor	36
- Diameter of sensor	M30

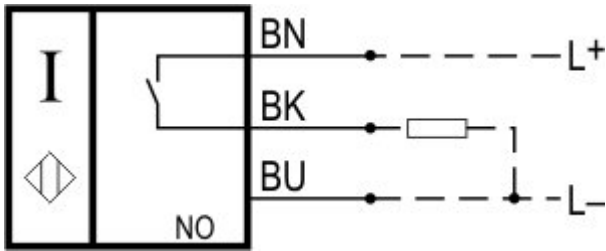
## notice

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

Instead of nuts, a mounting clamp can be provided.

## Diagram

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Note Diagram

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

## Ordering code

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

(1)

10

15

(2)

30

300

(3)

without

M

L

(4)

01

10

10/01

11

(5)

without

ST

T

D

(6)

without

2

(7)

N

P

(8)

Switch distance 10 mm

Switch distance 15 mm

cylinder, thread M30, Metal film

cylinder, thread M30, Plastic

Included in standard version Design

miniature body

Long design

Opener (NC)

Normally open contact (NO)

Normally open contact (NO) / Opener (NC) with Wiring compartment

Normally open contact (NO) / Opener (NC) antivalent

Cable

Connector

Conductor with strain relief

DC 2-wire

Included in standard version Plug-in connection

Alternative Plug-in connection

n-type

p-type

1310  
2130  
1766

Max. +110°C (Only for Alternating current AC)  
Max. +130°C, without LED switching conditions display  
Max. +110°C (Only for p-type or n-type)

## 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

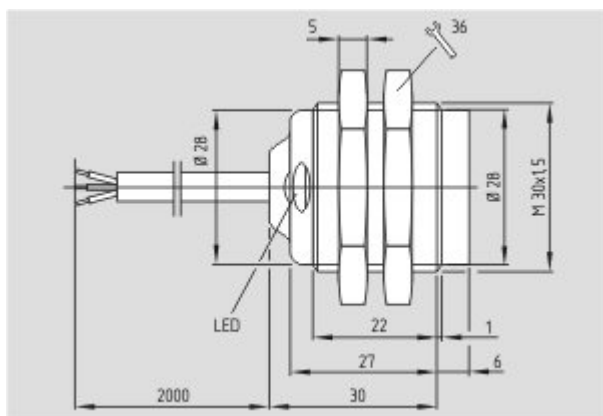
Code: konfi\_ifl\_en

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

Code: konfi\_ifl\_de

## Images

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Dimensional drawing (basic component)

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

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