

Datasheet - IFL 15-30L-10TP

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



Preferred typ




- Design M30
- Metal enclosure
- DC 3-wire
- Long design

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

Ordering details

| | |
|--------------------------|-----------------|
| Product type description | IFL 15-30L-10TP |
| Article number | 101127041 |
| EAN code | 4030661050829 |

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 | 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 | 195 g |

Mechanical data

| | |
|---------------------------------|-------|
| Design of electrical connection | Cable |
|---------------------------------|-------|

| | |
|------------------------------------|---|
| Cable length | 2 m |
| Conductor with strain relief | Yes |
| Conductors | 3 x 0,34 mm ² |
| 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, short-circuit and overload proof |
| Pressure resistant (Y/N) | No |
| Tightening torque for nuts | A/F 36 max. 3000 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) |
| Number of wire | 3 piece |
| Voltage type | DC, direct current |
| Supply voltage U _B | |
| - Min. supply voltage | 10 V |
| - Max. supply voltage | 30 V |
| Switch frequency | approx. 100 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

| | |
|--------------------------|-----|
| Design of control output | PNP |
|--------------------------|-----|

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 |

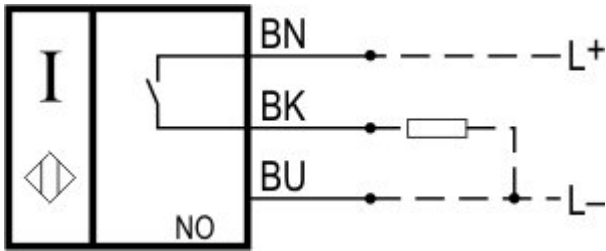
Dimensions

| | |
|--------------------------|--------|
| Dimensions of the sensor | |
| - 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 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) | |
| <i>without</i> | 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) | |
| <i>without</i> | Cable |
| ST | Connector |
| T | Conductor with strain relief |
| D | DC 2-wire |
| (6) | |
| <i>without</i> | 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

Mounting and wiring instructions (de, en, fr, it) 79 kB, 05.10.2010

Code: m_fl1p01

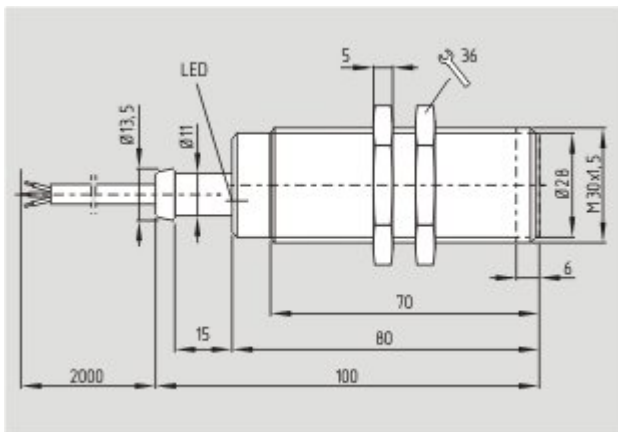
CCC certification (en) 357 kB, 17.01.2012

Code: q_iflp02

CCC certification (cn) 349 kB, 17.01.2012

Code: q_iflp03

Images



Dimensional drawing (basic component)

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

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Image

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