

Datasheet - IFL 4-12-01STP

Inductive proximity switch / Housing construction form: cylinder, thread / IFL - M12



Preferred typ



- Design M12
- Metal enclosure
- DC 3-wire
- Connector M12

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

Ordering details

| | |
|--------------------------|----------------|
| Product type description | IFL 4-12-01STP |
| Article number | 101098651 |
| EAN Code | 4030661017488 |
| eCl@ss | 27-27-01-01 |

Global Properties

| | |
|--|------------------------------------|
| Permanent light | IFL - M 12 |
| 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, nickel-plated |
| - Material of the active surface | Plastic |
| Housing coating | nickel-plated |
| Housing construction form | cylinder, thread |
| Weight | 30 |

Mechanical data

| | |
|---------------------------------|---------------|
| Design of electrical connection | Connector M12 |
|---------------------------------|---------------|

| | |
|--|---|
| mechanical installation conditions | not flush |
| Switch distance S_n | 4 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 17 max. 1500 Ncm |
| - in the shell core area: max. 500 Ncm | |

Ambient conditions

| | |
|----------------------------------|----------------------|
| Ambient temperature | |
| - Min. environmental temperature | -25 |
| - Max. environmental temperature | +70 |
| Protection class | IP67 to IEC/EN 60529 |

Electrical data

| | |
|---------------------------|------------------------|
| Design of control element | Opener (NC) |
| Number of wire | 3 |
| Voltage type | DC, direct current |
| Supply voltage | |
| - Min. supply voltage | 10 |
| - Max. supply voltage | 30 |
| Switch frequency | approx. 500 HZ |
| Voltage drop U_d | approx. 1.2 V (200 mA) |
| Operating current I_e | 200 mA |
| No-load current I_0 | approx. 3 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 |

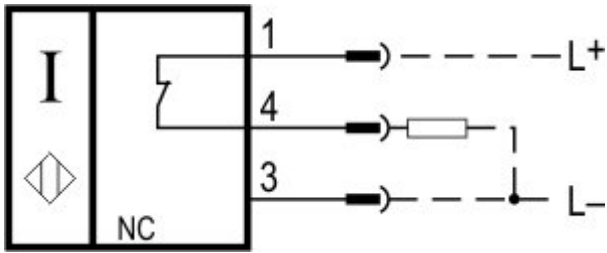
Dimensions

| | |
|--------------------------|-----|
| Dimensions of the sensor | |
| - Length of sensor | 57 |
| - Diameter of sensor | M12 |

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)-(9)

| | |
|---------|--|
| (1) | |
| 2 | Switch distance 2 mm |
| 4 | Switch distance 4 mm |
| B | Quasi-embeddable |
| (2) | |
| 12 | cylinder, thread M12, Metal film |
| 120 | cylinder, thread M12, 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 |
| (6) | |
| without | Included in standard version Plug-in connection |
| 2 | Alternative Plug-in connection |
| (7) | |
| N | n-type |
| P | p-type |
| (8) | |
| K | Max. fuse rating |
| 1 | pulsed |
| (9) | |
| 2033 | Stainless steel enclosure |

Documents

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

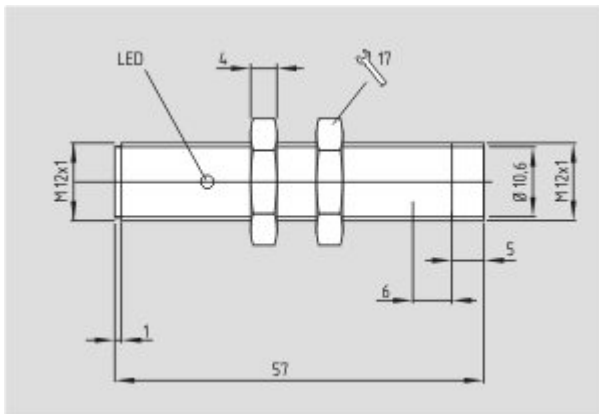
Declaration of conformity (en) 91 kB, 13.04.2017

Code: konfi_ifl_en

Declaration of conformity (de) 96 kB, 01.07.2016

Code: konfi_ifl_de

Images



Dimensional drawing (basic component)

System components

Mounting accessories



101068880 - MOUNTING CLAMP H 12

- For a smooth fitting of the proximity switches with cylindric shape \varnothing 12 mm or thread M12

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

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