# DATASHEET



## IFL 15-300L-10TP

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

## Data

### Ordering data

| | |
|---|---|
| Product type description | IFL 15-300L-10TP |
| Article number (order number) | 101126977 |
| EAN (European Article Number) | 4030661050676 |
| eCl@ss number, version 12.0 | 27-27-40-01 |
| eCl@ss number, version 11.0 | 27-27-01-01 |
| eCl@ss number, version 9.0 | 27-27-01-01 |
| ETIM number, version 7.0 | EC002714 |
| ETIM number, version 6.0 | EC002714 |

### Approvals - Standards

| | |
|---|---|
| Certificates | CCC |

### General data

| | |
|---|---|
| Standards | DIN VDE 0660-208<br>EN IEC 60947-5-2 |
| Housing construction form | Cylinder, thread |
| Installation conditions (mechanical) | not flush |

| | |
|---|---|
| Housing material | Plastic |
| Active area | Plastic |
| Material of the nuts | Plastic |
| Material of the washer | Perbunan® |
| Gross weight | 125 g |

## General data - Features

| | |
|---|---|
| Integral system diagnostics, status | Yes |
| Cable sleeve | Yes |
| Number of cable wires | 3 |

## Mechanical data

| | |
|---|---|
| Tightening torque of nuts, maximum | 4 Nm |

## Mechanical data - Switching distances according EN IEC 60947-5-3

| | |
|---|---|
| Nominal switching distance $S_n$ | 15 mm |

## Mechanical data - Connection technique

| | |
|---|---|
| Length of cable | 2 m |
| Termination | Cable |
| Wire cross-section | 0.34 $mm^2$ |
| Material of the Cable mantle | PVC |

## Mechanical data - Dimensions

| | |
|---|---|
| ISO thread of the sensor | M30 |
| width across flats | 36 BK |
| Length of sensor | 100 mm |

## Ambient conditions

| | |
|---|---|
| Degree of protection | IP67 |
| Ambient temperature | -25 ... +70 °C |
| Protection class | 0 |

## Electrical data

| | |
|---|---|
| No-load supply current $I_0$, typical | 3 mA |
| Rated operating voltage | 10 ... 30 VDC |
| Operating current | 200 mA |
| Switching element | Normally open contact (NO) |
| Protection circuit integrated | inductive interference protection<br>Protection against polarity reversal<br>Surge protection<br>Max. fuse rating |
| Switching frequency, approx. | 100 Hz |
| Type of voltage range | DC |

## Electrical data - Digital Output

| | |
|---|---|
| Voltage drop $U_d$, maximum | 1.2 V |
| Current at Voltage drop $U_d$ | 0.2 A |
| Design of control elements | p-type |

## Status indication

| | |
|---|---|
| Note (Integral System Diagnostics, status ) | yellow LED |

## Note

| | |
|---|---|
| Note (General) | Instead of nuts, a mounting clamp can be provided. |

## Ordering code

Product type description:
IFL (1)-(2)(3)-(4)(5)(6)(7)-(8)

(1)

| | |
|---|---|
| **10** | Switching distance 10 mm |
| **15** | Switching distance 15 mm |

(2)

| | |
|---|---|
| **30** | Cylinder, thread M30, metal |
| **300** | Cylinder, thread M30, plastic |

(3)

| | |
|---|---|
| **without** | Standard body |
| **M** | Miniature body |
| **L** | Long design |

(4)

| | |
|---|---|
| **01** | Opener (NC) |
| **10** | Normally open contact (NO) |
| **10/01** | NO contact / NC contact with wiring compartment |
| **11** | 1 NO contact / 1 NC contact antivalent |

(5)

| | |
|---|---|
| **without** | Cable |
| **ST** | Male connector |
| **T** | Conductor with strain relief |
| **D** | DC 2-wire |

(6)

| | |
|---|---|
| **without** | Standard connector version |
| **2** | Alternative conector version |

(7)

| | |
|---|---|
| **N** | n-type |
| **P** | p-type |

(8)

| | |
|---|---|
| **1310** | Can be used up to +110 C (for alternating current (AC) only) |
| **2130** | Can be used up to +130 C, without LED switching conditions display |
| **1766** | Can be used up to +110 C (for p-type or n-type only) |

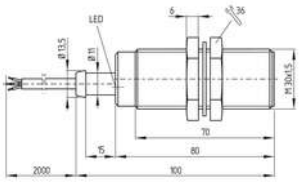
# Pictures

## Product picture (catalogue individual photo)



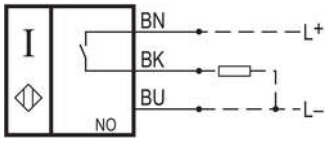
ID: kifl1f42
| 464.7 kB | .jpg | 352.778 x 529.167 mm - 1000 x 1500 px - 72 dpi
| 38.0 kB | .png | 74.083 x 111.125 mm - 210 x 315 px - 72 dpi
| 31.8 kB | .jpg | 82.197 x 123.472 mm - 233 x 350 px - 72 dpi

## Dimensional drawing basic component




ID: 1ifl1g41
| 25.1 kB | .cdr |
| 3.5 kB | .png | 74.083 x 51.153 mm - 210 x 145 px - 72 dpi
| 87.6 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 px - 72 dpi

## Diagram




ID: id3lk05
| 31.7 kB | .cdr |
| 48.6 kB | .jpg | 352.778 x 146.756 mm - 1000 x 416 px - 72 dpi
| 2.3 kB | .png | 74.083 x 30.692 mm - 210 x 87 px - 72 dpi