

## Datasheet - IFL 2-6,5M-10ST2N

Inductive proximity switch / Housing construction form: cylinder smooth / IFL Ø 6.5 mm




- Design Ø 6.5 mm
- Metal enclosure
- DC 3-wire
- Connector

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

### Ordering details

Product type description	IFL 2-6,5M-10ST2N
Article number	101113738
EAN Code	4030661047348
eCl@ss	27-27-01-01

### Global Properties

Permanent light	IFL Ø 6,5 mm
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 terminal fixing	thermoplastic
Housing coating	nickel-plated
Housing construction form	cylinder smooth
Weight	10

### Mechanical data

Design of electrical connection	Connector M8
Conductor with strain relief	No
mechanical installation conditions	flush

Switch distance $S_n$	2 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

## 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. 3000 HZ
Voltage drop $U_d$	approx. 1.2 V (200 mA)
Operating current $I_e$	200 mA
No-load current $I_o$	approx. 3.4 mA (24 V)

## Outputs

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Design of control output	NPN
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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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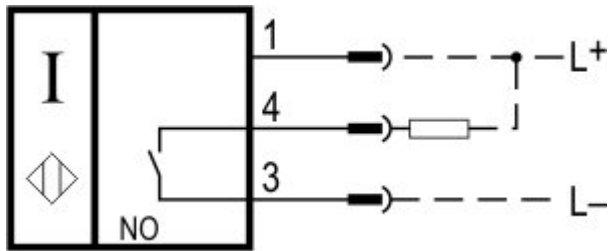
Dimensions of the sensor	
- Width of sensor	6.5
- Height of sensor	6.5
- Length of sensor	54
- Diameter of sensor	6.5 mm

## notice






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Clamp H 6,5 is included in delivery

## 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)

<p><b>(1)</b> 2 N-2</p>	<p>Switch distance 2 mm Switch distance 1.5 mm</p>
<p><b>(2)</b> 6.5</p>	<p>cylinder smooth, Ø 6.5 mm</p>
<p><b>(3)</b> <i>without</i> M</p>	<p>Included in standard version Design miniature body</p>
<p><b>(4)</b> 01 10 11</p>	<p>Opener (NC) Normally open contact (NO) Normally open contact (NO) / Opener (NC) antivalent</p>
<p><b>(5)</b> <i>without</i> ST</p>	<p>Cable Connector</p>
<p><b>(6)</b> <i>without</i> 2</p>	<p>Included in standard version Plug-in connection Alternative Plug-in connection</p>
<p><b>(7)</b> N P</p>	<p>n-type p-type</p>

## 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

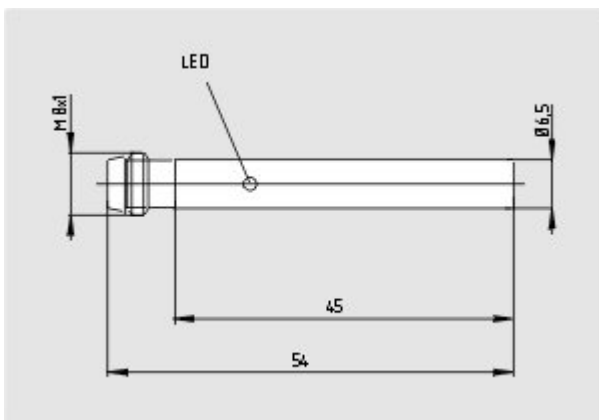
Code: konfi\_ifl\_en

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

Code: konfi\_ifl\_de

## Images

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Dimensional drawing (basic component)

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## System components

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### Mounting accessories



#### 101095263 - MOUNTING CLAMP H 6,5

- For a smooth fitting of the proximity switches with cylindric shape  $\varnothing$  6.5 mm