

## Datasheet - IFO 8-300-10/01

Photo-electric proximity switches / Housing construction form: cylinder, thread / IFO - M30



☒ Preferred typ




- Design M30
- Thermoplastic enclosure
- AC 2-wire
- Wiring compartment can be turned 180°

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

### Ordering details

Product type description	IFO 8-300-10/01
Article number	101149286
EAN Code	4030661150840
eCl@ss	27-27-09-02

### Global Properties

Permanent light	IFO - M30
Standards	IEC/EN 60947-5-2; DIN VDE 0660-208
Compliance with the Directives (Y/N) 	Yes
Operating resource protection class	Protection class 2
Materials	
- Material of the housings	Plastic
- Material of the nuts	Plastic
- Material of the washer	perbunan®
- Material of the active surface	Plastic
Housing coating	
Housing construction form	cylinder, thread
Weight	70
Push button function	bright/dark switching
Detection range $S_d$	max. 800 mm
Range	0,8

Time function (Y/N)	No
Preliminary failure signal possible (Y/N)	No

### Mechanical data

• Wiring compartment	
Design of electrical connection	Screw connection
Cable entry	M16 x 1.5
Cable section	
- Min. Cable section	
- Max. Cable section	2 x 1.5
AWG-Number	15
Reduction factor 1 met (Y/N)	No
Protection circuit	inductive interference protection
Pressure resistant (Y/N)	No
Tightening torque for nuts	A/F 36 max. 400 Ncm

### Ambient conditions

Ambient temperature	
- Min. environmental temperature	0
- Max. environmental temperature	+70
Protection class	IP65 to IEC/EN 60529

### Electrical data

Design of control element	Normally open contact (NO) or Opener (NC)
Number of wire	2
Voltage type	AC, alternating current
Supply voltage $U_B$	
- Min. supply voltage	15
- Max. supply voltage	250
Rated supply frequency	45 ... 65
Switch frequency	approx. 10 HZ
Voltage drop $U_d$	approx. 7 V (250 V / 500 mA)
Rated impulse withstand voltage $U_{imp}$	max. 10 kV
Residual current $I_r$	3 mA
Minimum operating current $I_m$	10 mA
Operating current $I_e$	500 mA
notice	Programmable NO contact (Load switched with reflection / light-operated) or NC contact (Load not switched with reflection / dark-operated) Programmable by repositioning the plug-in jumper at the terminal screws.

### Outputs

Design of control output	Two-wire
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### 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

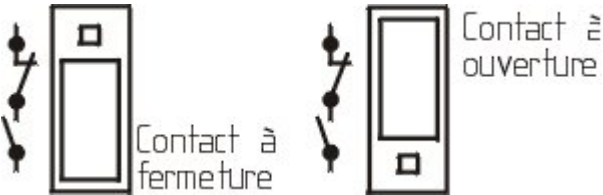
Dimensions

Dimensions of the sensor	
- Width of sensor	46
- Height of sensor	46
- Length of sensor	118
- Diameter of sensor	M30

notice

Instead of nuts, a mounting clamp can be provided.

Diagram

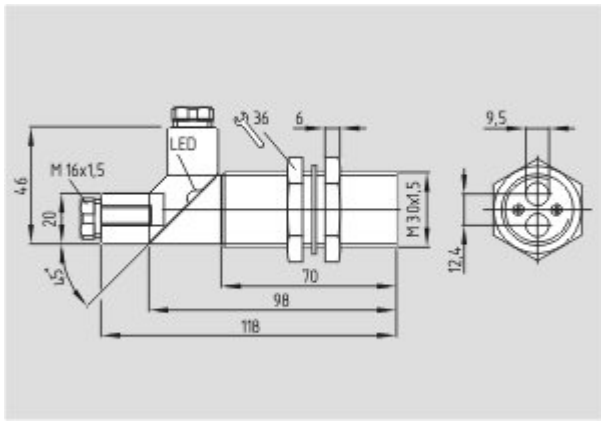


- Note Diagram
- positive break NC contact
  - active
  - no active
  - Normally-open contact
  - Normally-closed contact

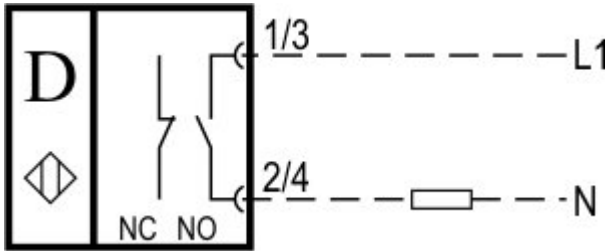
Ordering code

IFO (1)-(2)-(3)(4)	
(1)	
8	Switch distance 800 mm
10	Switch distance 1000 mm
(2)	
30	cylinder, thread M30, Metal film
300	cylinder, thread M30, Plastic
(3)	
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
(4)	
without	Design of control output Two-wire
P	p-type

Images



Dimensional drawing (basic component)



Diagram

## System components

### Mounting accessories



#### 101068520 - MOUNTING CLAMP H 30

- For a smooth fitting of the proximity switches with cylindric shape Ø 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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