

Datasheet - IFO 10-30-10/01P

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



☒ Preferred typ




- Design M30
- Metal enclosure
- DC 3-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 10-30-10/01P
Article number	101148719
EAN Code	4030661148069
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	Brass
- Material of the nuts	Brass
- Material of the active surface	Plastic
Housing coating	nickel-plated
Housing construction form	cylinder, thread
Weight	138
Push button function	bright/dark switching
Detection range S _d	bis 1000 mm
Range	1
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	3 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. 3000 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	3
Voltage type	DC
Supply voltage U_B	
- Min. supply voltage	10
- Max. supply voltage	60
Rated supply frequency	
Switch frequency	approx. 100 HZ
Voltage drop U_d	approx. 2 V (250 V / 400 mA)
Rated impulse withstand voltage U_{imp}	
Minimum operating current I_m	
Operating current I_e	400 mA
No-load current I_o	approx. 2.4 mA (24 V)
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	PNP
--------------------------	-----

LED switching conditions display

LED switching conditions display (Y/N)	Yes
- yellow LED	

ATEX

Explosion protection categories for gases	None
---	------

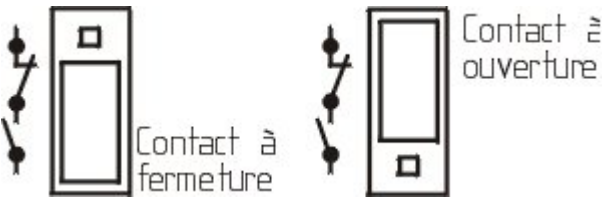
Dimensions

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

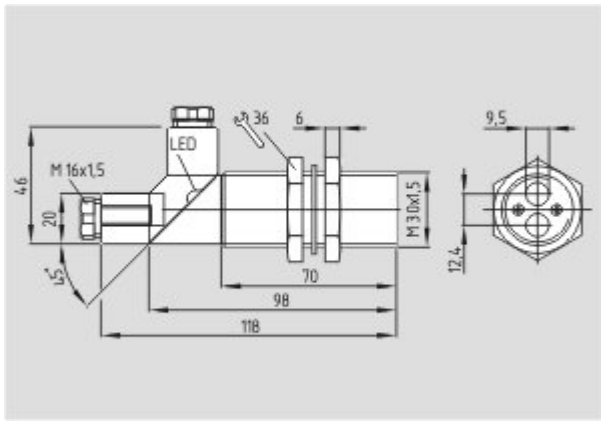


- Note Diagram
- positive break NC contact
 - active
 - no active
 - Normally-open contact
 - Normally-closed contact

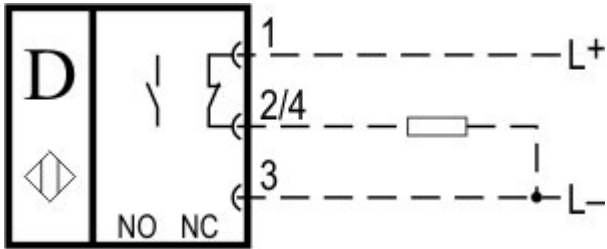
Ordering code

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

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal

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

Generiert am 13.02.2019 - 13:13:37h Kasbase 3.3.0.F.64I