Proximity Sensors Inductive
Extended Range, Aluminium Micro Switch Housing
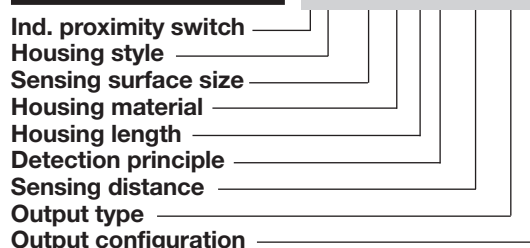# Type IG12FSF04DO, DC, 2-wire

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- Sensing distance: 4 mm
- Flush type
- Power supply: 10 to 40 VDC
- Output: Transistor
- Make or Break switching
- Protection: Reverse polarity, short-circuit and transients
- 2 m cable - PUR/PVC
- Dimensions: Body: 30 x 19 x 15 mm
                  Tip: Ø12 x 16 mm

Product Description

Flush mountable inductive proximity switch in micro switch aluminium housing with 2 m PUR cable. This type of sensor can replace mechanical limit switches.

The sensor has an extreme low No-load supply current of typical 0.3 mA. Mounting with 4 mm captive screws or 3 mm screws (front mounted).
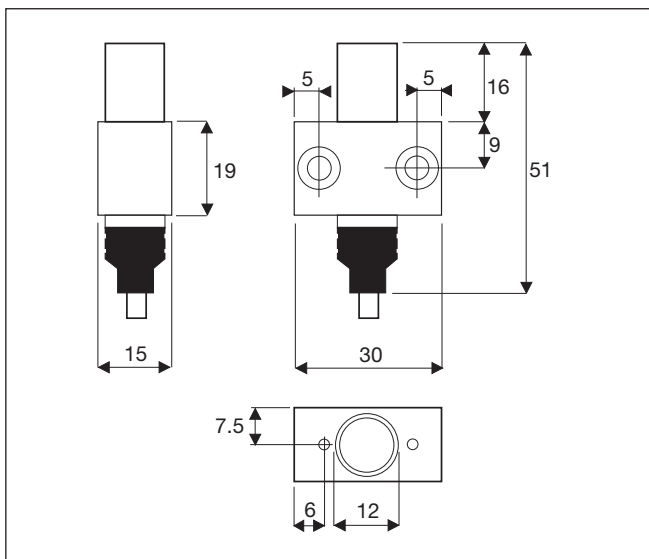
Ordering Key   IG12FSF04DO

Ind. proximity switch
Housing style
Sensing surface size
Housing material
Housing length
Detection principle
Sensing distance
Output type
Output configuration

Type Selection

Housing dimensions	Connection	Rated operating dist. (Sn)	Ordering no. 2 wire DC, Normally open	Ordering no. 2 wire DC, Normally closed
30 x 19 x 15 mm	Cable	4 mm [1]	**IG 12 FSF 04 DO**	**IG 12 FSF 04 DC**

[1] For flush mounting in metal

Specifications

Rated operational volt. (U_e) (U_B)	12 to 36 VDC 10 to 40 VDC (ripple included)
Ripple	≤ 10%
Rated operational current (I_e) Continuous	≤ 5-100 mA
No-load supply current (I)	≤ 0.4 mA
Voltage drop (U_d)	≤ 3 VDC at max. load
Protection	Reverse polarity, short-circuit, transients
Transient voltage	≤ 1 kV/500 Ω
Power ON delay	< 100 ms
Frequency of op. cycles (f)	1 kHz
Repeat accuracy (R)	≤ 10%
Hysteresis (H) (Differential travel)	1 to 20% of sensing distance
Assured operating dist. (S_a)	$0 ≤ S_a ≤ 0.81 S_n$
Effective operating dist. (S_r)	$0.9 x S_n ≤ S_r ≤ 1.1 x S_n$
Usable operating dist. (S_m)	$0.9 x S_r ≤ S_u ≤ 1.1 x S_r$
Ambient temperature Operating Storage	-25° to +70°C (-13° to +158°F) -30° to +80°C (-22° to +176°F)

Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Housing material Body Front	Anodized Aluminium, type EN AW-6802 Anodized Aluminium and grey thermoplastic polyester (CPBT)
Connection Cable	2 m, 2 x 0.34 mm², Ø5.1 mm grey PUR/PVC, oil proof
Mounting	2 x M4 screws for side mounting or 2 x M3 screws for front mounting
Weight (cable included 2 m)	Approx. 85 g

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Dimensions
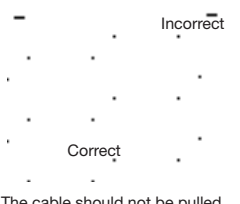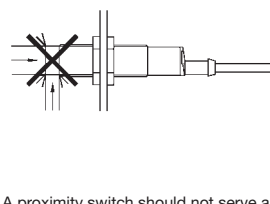
19

5 5 16

9 51

15 30

7.5

6 12

Wiring Diagram

LOAD

BN

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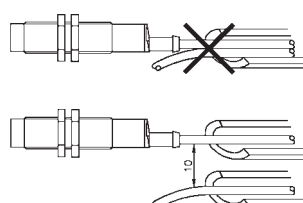
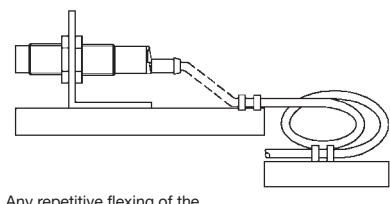## Installation Hints

To avoid interference from inductive voltage/ current peaks, separate the prox. switch power cables from any other power cables, e.g. motor, contactor or solenoid cables	*Relief of cable strain*	*Protection of the sensing face*	*Switch mounted on mobile carrier*
	Incorrect Correct The cable should not be pulled	A proximity switch should not serve as mechanical stop	Any repetitive flexing of the cable should be avoided

Delivery Contents

Inductive proximity switch IG12FSF04D.
Packaging: plastic bag

Specifications are subject to change without notice (07.03.05)

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