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

•	Sensing	distance:	4	mm
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- Flush type
- Power supply: 10 to 40 VDC
- Output: Transistor
- Make or Break switching
- · Protection: Reverse polarity, short-circuit and transients

IG12FSF04DO

- 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**

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. (S <sub>n</sub> )	Ordering no. 2 wire DC, Normally open	Ordering no. 2 wire DC, Normally closed
30 x 19 x 15 mm	Cable	4 mm <sup>1)</sup>	IG 12 FSF 04 DO	IG 12 FSF 04 DC

<sup>1)</sup> For flush mounting in metal

#### **Specifications**

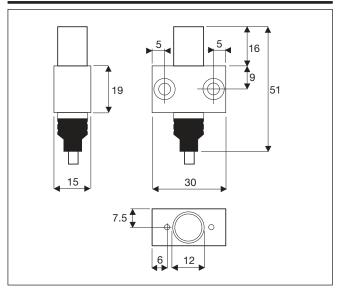
Rated operational volt. $(U_e)$ $(U_B)$	12 to 36 VDC 10 to 40 VDC (ripple included)
Ripple	≤ 10%
Rated operational current (I <sub>e</sub> ) Continuous	≤ 5-100 mA
No-load supply current (I)	≤ 0.4 mA
Voltage drop (U <sub>d</sub> )	$\leq$ 3 VDC at max. load
Protection	Reverse polarity, short-circuit, transients
Transient voltage	$\leq$ 1 kV/500 $\Omega$
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. (Sa)	$0 \leq S_a \leq 0.81 \ S_n$
Effective operating dist. (Sr)	$0.9 \ x \ S_n \leq S_r \leq 1.1 \ x \ S_n$
Usable operating dist. (Sm)	$0.9 \ x \ S_r \leq S_u \leq 1.1 \ x \ S_r$
Ambient temperature Operating Storage	-25° to +70°C (-13° to +158°F) -30° to +80°C (-22° to +176°F)

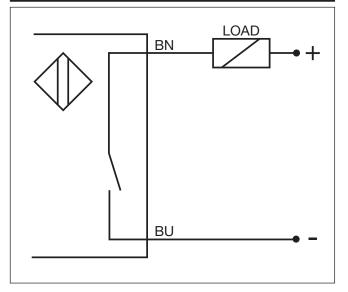
Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Housing material Body Front	Anodized Aluminium, type EN AW-6802 Anodized Aluminium and grey thermoplastic polyester (CPBT)
Connection Cable	2 m, 2 x 0.34 mm², Ø5.1 mm grey PUR/PVC, oil proof
Mounting	2 x M4 screws for side mounting or 2 x M3 screws for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



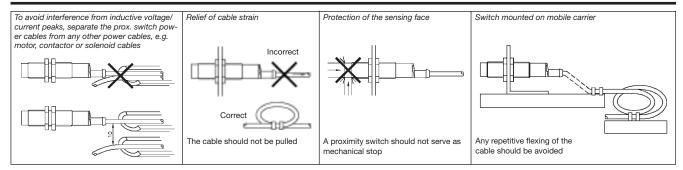
### **Dimensions**







## **Installation Hints**



## **Delivery Contents**

Inductive proximity switch IG12FSF04D. Packaging: plastic bag