

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. (S _n)	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

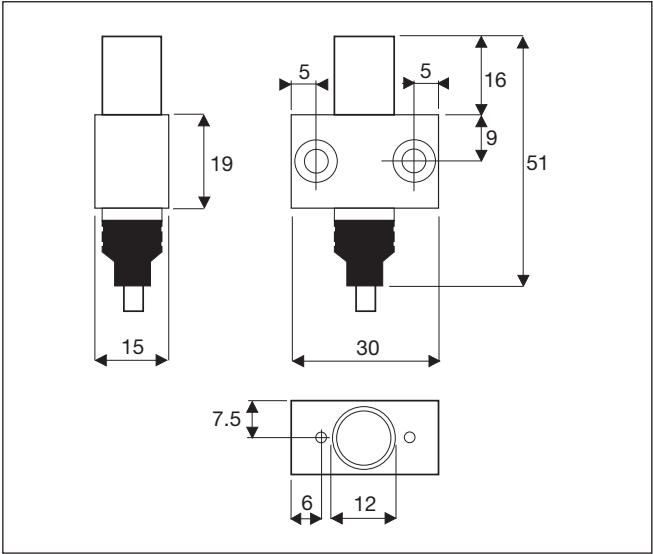
¹⁾ For flush mounting in metal

Specifications

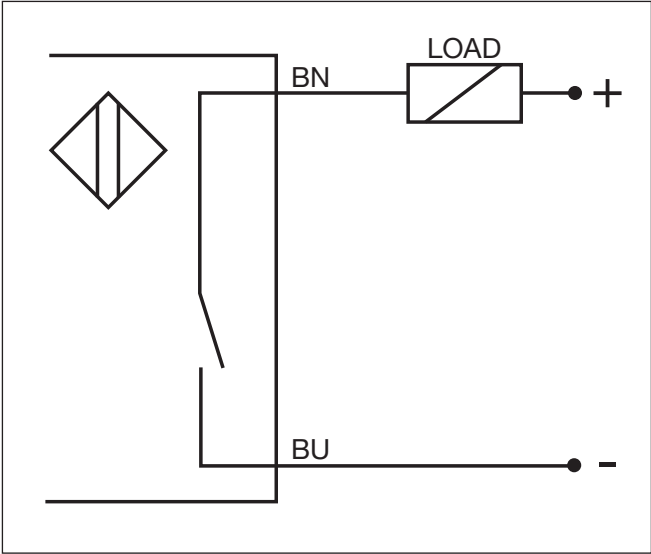
Rated operational volt. (U _e) (U _B)	12 to 36 VDC 10 to 40 VDC (ripple included)	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Ripple	≤ 10%	Housing material	
Rated operational current (I _e) Continuous	≤ 5-100 mA	Body	Anodized Aluminium, type EN AW-6802
No-load supply current (I)	≤ 0.4 mA	Front	Anodized Aluminium and grey thermoplastic polyester (CPBT)
Voltage drop (U _d)	≤ 3 VDC at max. load	Connection	
Protection	Reverse polarity, short-circuit, transients	Cable	2 m, 2 x 0.34 mm ² , Ø5.1 mm grey PUR/PVC, oil proof
Transient voltage	≤ 1 kV/500 Ω	Mounting	2 x M4 screws for side mounting or 2 x M3 screws for front mounting
Power ON delay	< 100 ms	Weight (cable included 2 m)	Approx. 85 g
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	-25° to +70°C (-13° to +158°F)		
Storage	-30° to +80°C (-22° to +176°F)		



Dimensions



Wiring Diagram



Installation Hints

<p>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</p>	<p>Relief of cable strain</p> <div><p>Incorrect</p></div> <div><p>Correct</p></div> <p>The cable should not be pulled</p>	<p>Protection of the sensing face</p>	<p>Switch mounted on mobile carrier</p>
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Delivery Contents

Inductive proximity switch IG12FSF04D.
Packaging: plastic bag

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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[IKE20001K](#) [IG12FSF04DC](#) [IG12FSF04DO](#)