

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 mount-ed).

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

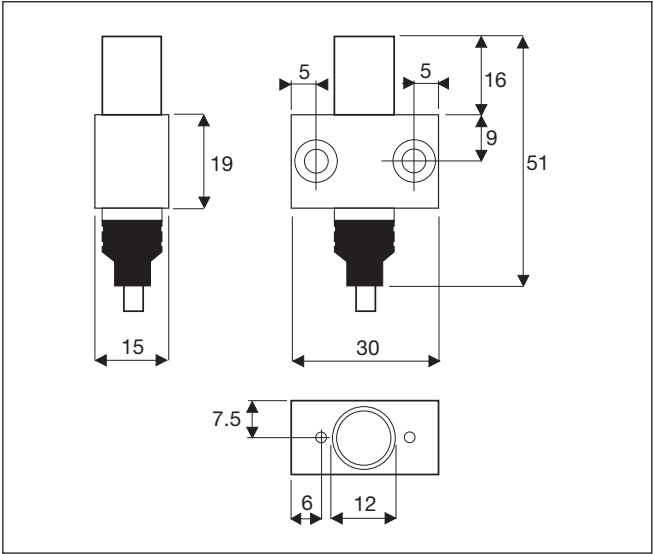
¹⁾ For flush mounting in metal

Specifications

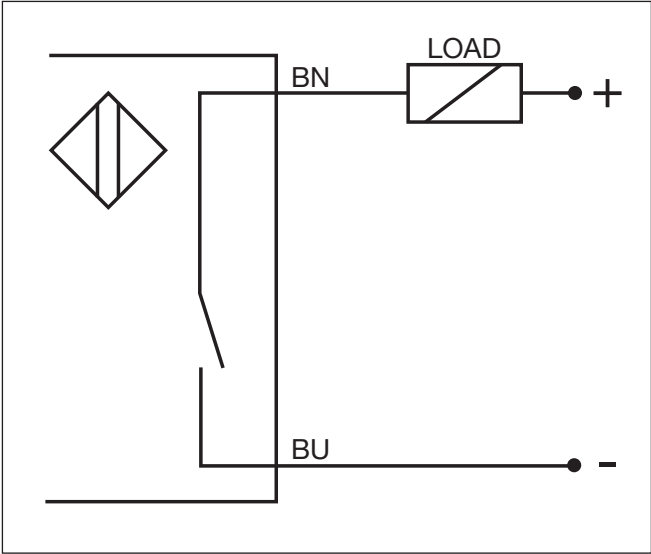
Rated operational volt. (U _e) (U _B)	12 to 36 VDC 10 to 40 VDC (ripple included)	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Ripple	≤ 10%	Housing material	
Rated operational current (I _e) Continuous	≤ 5-100 mA	Body	Anodized Aluminium, type EN AW-6802
No-load supply current (I)	≤ 0.4 mA	Front	Anodized 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	
Power ON delay	< 100 ms		2 x M4 screws for side mounting or 2 x M3 screws for front mounting
Frequency of op. cycles (f)	1 kHz	Weight (cable included 2 m)	Approx. 85 g
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

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 Incorrect Correct The cable should not be pulled	Protection of the sensing face	Switch mounted on mobile carrier Any repetitive flexing of the cable should be avoided
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Delivery Contents

Inductive proximity switch IG12FSF04D.
Packaging: plastic bag