



Reference: BSA-INDA

Selected parameters Others TYPE Inductive sensor HOUSING M18x55 POWER SUPPLY Bus-powered MAIN CHARACTERISTICS Inductive flush-mount sensor with 5 mm sensing distance, M12 connector

Buy it at Electric Automation Network

Transmitter with Inductive Prox. Switch Function

BSA-INDA

Stainless steel housing, cylindrical Diameter: M18

Short version Flush mounting

Sensing distance: 5 mm Powered by smart-house Available with M12 connector

Freely programmable channel code by BGP-COD-BAT

GENERAL SPECIFICATIONS Power ON delayTyp. 5 ms

Environment

Degree of protectionIP 67

Pollution degree 3 (IEC 60664)

Operating temperature -25° to +70°C (-13° to +158°F) Storage temperature -30° to

+80°C (-22° to +176°F) Mechanical resistance

Tightening torque 2.6 Nm

Material

Housing & BodyStainless steel (1.4301) BackBlack polyester

FrontGrey thermoplastic polyester

Connection M12 plug

Weight 25 g

INPUT SPECIFICATIONS

Inputs Inductive proximity switch

Nominal sensing distance Sn 5 mm

Effective sensing range Sr 0.9 x Sn \leq Sr \leq 1.1 x Sn Usable operating range Su 0.9 x Sr \leq Su \leq 1.1 x Sr Assured operating range Sa0 < Sa < 0.81 x Sn Hysteresis HTyp. 7%

Response time≤ 1smart-house pulse train

REDUCTION FACTORS

The nominal sensing distance is reduced by the use of metal and alloys other than ST 37. Most important reduction factors for the inductive proximity switch are: Stainless steel $0.6 \times Sn$ Brass $0.4 \times Sn$ Aluminium $0.3 \times Sn$ Copper $0.2 \times Sn$

SUPPLY SPECIFICATIONS

Power supply Supplied by smart-house

Reverse polarity protectionYes

Rated operational current Typ. 900 µA

TYPE SELECTION Housing Connection Rated operating Ordering no. diameterdist. (Sn) M18M12 plug5 mm 1)BSA-INDA

1)For flush mounting in metal

MODE OF OPERATION

The BSA-INDA inductive proximity switch with built-in smart-house transmitter operates in the same way as the commonly available pro-

WIRING DIAGRAM

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ducts of a similar kind. Once a metallic object is brought within sens- ing distance of the inductive proximity switch the respective channel will be activated.

The inductive proximity switch may be coded to any smart-house channel by means of the programmer BGP-COD-BAT and the adapter ADAPT 1605.

Brown

Blue

Black

Specifications are subject to change without notice (14.08.2009) - A product of the CARLO GAVAZZI Group