Reference: ICB12LF02NO

Selected parameters OUTPUT FUNCTION NO MOUNTING Flush HOUSING M12 SENSING RANGE up to 2 mm OUTPUT DC NPN CONNECTION Cable WIRE 3-wire MATERIAL Metal SYSTEM Proximity Sensor Others HOUSING M12 x 66 mm MATERIAL Nichel Plated Brass SENSING RANGE 2 mm OUTPUT FUNCTION Normally Open

Buy it at Electric Automation Network

Proximity Inductive Sensors
Standard range, Nickel-Plated Brass Housing
Types ICB, M12
• Sensing distance: 2 to 4 mm
• Flush and non-flush types
• Short and long body versions
• Rated operational voltage (Ub): 10 - 36 VDC
• Output: DC 200 mA, NPN or PNP
• Normally open, Normally closed
• LED indication for output ON
• Protection: reverse polarity, short circuit, transients
• Cable and M12 plug versions
• According to IEC 60947-5-2
• Higher resistance to magnetic field
• CSA certified for Hazardous Locations
Product Description
Ordering Key
ICB12SF02NOM1
A family of inductive proxim- ity switches in industrial standard nickel-plated brass housings.They are able to handle applications where
Type Selection
high sensing range is requested.
Output is open collector
NPN or PNP transistors.
Type
Housing style Housing material Housing size Housing length Detection principle Sensing distance Output type
Output configuration

Connection
Connec-BodyRated Ordering no. Ordering no. Ordering no.Ordering no. tionstyle operating NPN PNP NPNPNP
distance SnNormally openNormally openNormally closedNormally closed
Cable Short2 mm 1)ICB 12 SF 02 NO ICB 12 SF 02 PO ICB 12 SF 02 NCICB 12 SF 02 PC Cable Short4 mm 2)ICB 12 SN 04 NOICB 12 SN 04 POICB 12 SN 04 NC ICB 12 SN 04 PC PlugShort2 mm 1)ICB 12 SF 02 NOM1ICB 12 SF 02 POM1ICB 12 SF 02 NCM1 ICB 12 SF 02 PCM1
PlugShort4 mm 2)ICB 12 SN 04 NOM1 ICB 12 SN 04 POM1 ICB 12 SN 04 NCM1ICB 12 SN 04 PCM1
Cable Long 2 mm 1)ICB 12 LF 02 NO ICB 12 LF 02 PO ICB 12 LF 02 NCICB 12 LF 02 PC Cable Long 4 mm 2)ICB 12 LN 04 NOICB 12 LN 04 POICB 12 LN 04 NC ICB 12 LN 04 PC PlugLong 2 mm 1)ICB 12 LF 02 NOM1ICB 12 LF 02 POM1ICB 12 LF 02 NCM1 ICB 12 LF 02 PCM1
PlugLong 4 mm 2)ICB 12 LN 04 NOM1 ICB 12 LN 04 POM1 ICB 12 LN 04 NCM1ICB 12 LN 04 PCM1
1) For flush mounting in metal 2) For non-flush mounting in metal
Specifications
Rated operational voltage (Ub)10 to 36 VDC (ripple incl.)
Ripple ≤ 10%
Output current (Ie)≤ 200 mA @ 50°C
(≤ 150 mA @ 50-70°C)
OFF-state current (Ir)≤ 50 µA
No load supply current (IO) ≤ 15 mA
Voltage drop (Ud) Max. 2.5 VDC @ 200 mA
ProtectionReverse polarity,
short-circuit, transients
Voltage transient 1 kV/0.5 J Power ON delay (tv)300 ms Operating frequency (f) ≤ 2000 Hz
Indication for output ONActivated LED, yellow
NO versionTarget present
NC versionTarget not present
Indication for short circuit/
overload LED blinking
Assured operating
sensing distance (Sa) 0 ≤ Sa ≤ 0.81 x Sn
Effective operating
distance (Sr)0.9 x Sn ≤ Sr ≤ 1.1 x Sn
Usable operating distance (Su) 0.9 x Sr ≤ Su ≤ 1.1 x Sr
Repeat accuracy (R) ≤ 10%
Differential travel (H)
(Hysteresis) 1 to 20% of sensing dist.
Ambient temperature
Operating-25° to +70°C (-13° to +158°F) Storage -30° to +80°C (-22° to +176°F)
Shock and vibration IEC 60947-5-2/7.4
Housing material
Body Nickel-plated brass

Front Grey thermoplastic polyester