Reference: ICB30SN22PC

Selected parameters OUTPUT FUNCTION NC MOUNTING Non Flush HOUSING M30 SENSING RANGE > 15 to 30 mm OUTPUT DC PNP CONNECTION Cable WIRE 3-wire MATERIAL Metal SYSTEM Proximity Sensor Others HOUSING M30 x 71 mm MATERIAL Nichel Plated Brass SENSING RANGE 22 mm OUTPUT FUNCTION Normally Closed

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PICBr,oMx30imity Inductive Sensors
Extended Range, Nickel-Plated Brass Housing
Types ICB, M30
• Sensing distance: 15 to 22 mm
• Flush or non-flush types
• Short or long body versions
• Rated operational voltage (Ub): 10 - 36 VDC
• Output: DC 200 mA, NPN or PNP
• Normally open or Normally closed
• LED indication for output ON
• Protection: reverse polarity, short circuit, transients
• Cable or M12 plug versions
• According to IEC 60947-5-2
• CSA certified for Hazardous Locations
Product DescriptionOrdering Key
ICB30SF15NOM1
A familyofinductiveprox- imity switches inindustri- al standard nickel-plated brass housings. They are able tohandle applications where 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
Type Selection
Connec- Body RatedOrdering no.Ordering no. Ordering no.Ordering no.
tionstyleoperatingNPN,PNP, NPN,PNP,

distance Sn Normally openNormally openNormally closed Normally closed
CableShort 15 mm 1) ICB30SF15NOICB30SF15PO ICB30SF15NCICB30SF15PC
CableShort 22 mm 2) ICB30SN22NOICB30SN22PO ICB30SN22NCICB30SN22PC
PlugShort 15 mm 1)
ICB30SF15NOM1ICB30SF15POM1ICB30SF15NCM1ICB30SF15PCM1
PlugShort 22 mm 2)
ICB30SN22NOM1ICB30SN22POM1ICB30SN22NCM1ICB30SN22PCM1
CableLong15 mm 1) ICB30LF15NOICB30LF15POICB30LF15NCICB30LF15PC
CableLong22 mm 2) ICB30LN22NOICB30LN22POICB30LN22NCICB30LN22PC
PlugLong15 mm 1) ICB30LF15NOM1 ICB30LF15POM1ICB30LF15NCM1
ICB30LF15PCM1
PlugLong22 mm 2)
ICB30LN22NOM1ICB30LN22POM1ICB30LN22NCM1ICB30LN22PCM1
1) For flush mounting in metal2) 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)≤
1000 Hz
Indication for output ONActivated LED, yellow
NO versionTarget present
NC versionTarget not present
Indication for short circuit/
overload LED blinking (f = 2 Hz)
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) 0.85 x Sr ≤ Su ≤ 1.1 x Sr
Repeat accuracy (R) ≤ 5%
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 capGrey thermoplastic polyester
Specifications are subject to change without notice (26.11.2014)1