Inductive sensor NBN15-F11-E0

Model Number
NBN15-F11-E0

Features
- 15 mm not embeddable
- 3-wire DC

Connection

Dimensions

Technical Data

General specifications

Switching element function
NPN
NO

Rated operating distance
s_n
15 mm

Installation
not embeddable

Output polarity
DC

Assured operating distance
s_a
0 ... 12.15 mm

Reduction factor
r_{AI}
0.3

Reduction factor
r_{Cu}
0.2

Reduction factor
r_{Nd}
0.6

Nominal ratings

Operating voltage
U_B
10 ... 30 V DC

Switching frequency
f
0 ... 150 Hz

Hysteresis
H
typ. 5%

Reverse polarity protected
reverse polarity protected

Short-circuit protection
pulsing

Voltage drop
U_d
≤ 3 V

Operating current
I_L
0 ... 150 mA

Off-state current
I_R
0 ... 0.5 mA typ. 0.1 µA

Nom.-load supply current
I_0
≤ 15 mA

Indication of the switching state
LED, yellow

Functional safety related parameters

MTTFd
3390 a

Mission Time (T_M)
20 a

Diagnostic Coverage (DC)
0 %

Ambient conditions

Ambient temperature
-25 ... 70 °C (-13 ... 158 °F)

Mechanical specifications

Connection type
cable PVC, 2 m

Core cross-section
0.34 mm²

Housing material
PBT

Sensing face
PBT

Protection degree
IP67

Compliance with standards and directives

Standard conformity
EN 60947-5-2:2007
IEC 60947-5-2:2007

Approvals and certificates

UL approval
cULus Listed, General Purpose

CSA approval
cCSAus Listed, General Purpose

CCC approval
Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.