Inductive sensor NBB1,5-F41-E2-V3

Model Number
NBB1,5-F41-E2-V3

Features
• 1.5 mm flush
• 3-wire DC
• Metal housing

Connection

PINOUT

1  BN (brown)
3  BU (blue)
4  BK (black)

Dimensions

Technical Data

General specifications
- Switching element function: PNP NO
- Rated operating distance: 1.5 mm
- Installation: flush
- Output polarity: DC
- Assured operating distance: 0.215 mm
- Reduction factor: rAl = 0.45
- Reduction factor: rCu = 0.35
- Reduction factor: r304 = 0.75

Nominal ratings
- Operating voltage: U_B = 10 ... 30 V DC
- Switching frequency: f = 0 ... 1500 Hz
- Hysteresis: H typ. = 3 %
- Reverse polarity protected
- Short-circuit protection: pulsing
- Voltage drop: U_d = < 3 V
- Operating current: I_L = 0 ... 100 mA
- Off-state current: I_R = 0 ... 0.5 mA typ.
- No-load supply current: I_0 = < 15 mA
- Indication of the switching state: LED, yellow

Functional safety related parameters
- MTTF_d: 1528 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: Device connector M8 x 1, 3-pin
- Housing material: brass, nickel-plated
- Sensing face: PBT
- Protection degree: IP67
- Mass: 13.5 g

Compliance with standards and directives
- Standard conformity:
  - 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.

Accessories
- V3-GM: Female connector, M8, 3-pin, field attachable
- V3-WM: Female connector, M8, 3-pin, field attachable
- V3-GM-2M-PUR: Cable socket, M8, 3-pin, PUR cable
- V3-WM-2M-PUR: Cable socket, M8, 3-pin, PUR cable

Wire colors in accordance with EN 60947-5-2

Wire colors:
1  M8X1
2  L-
3  L+
4  M8X1

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