Model Number
NBN15-F11-E0-V1

Features
- 15 mm not embeddable
- 3-wire DC

Connection

Pinout

Accessories
V1-G
4-pin, M12 female field-attachable connector
V1-W
4-pin, M12 female field-attachable connector
V1-G-2M-PUR
Cable socket, M12, 4-pin, PUR cable
V1-W-2M-PUR
Cable socket, M12, 4-pin, PUR cable

Dimensions

Technical Data

General specifications
Switching element function
NPN NO
Rated operating distance
15 mm
Installation
not embeddable
Output polarity
DC
Assured operating distance
0 ... 12.15 mm
Reduction factor rA
0.3
Reduction factor rCu
0.2
Reduction factor r304
0.6

Nominal ratings
Operating voltage
UB 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
UD ≤ 3 V
Operating current
IL 0 ... 150 mA
Off-state current
Ir 0 ... 0.5 mA typ. 0.1 µA
Ni-load supply current
I0 ≤ 15 mA
Indication of the switching state
LED, yellow

Functional safety related parameters
MTTFd 3390 a
Mission Time (TM) 20 a
Diagnostic Coverage (DC) 0 %

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

Mechanical specifications
Connection type
Device connector M12 x 1 , 4-pin
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.