

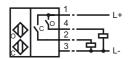
### **Model Number**

NBN2-F581-160S6-E8-V1

### **Features**

- Extremely bright triple luminous band indication
- M12 plug can be rotated 0°, 45°, or 90°
- For use in direct- and alternating-field welding systems
- Completely halogen and silicon free

# Connection



## **Pinout**

906154 eng.xml

Date of issue: 2012-11-22

Release date:



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

### **Accessories**

V1-G-OR2M-POC

Female cordset, M12, 4-pin, TPE cable, welding-bead resis-

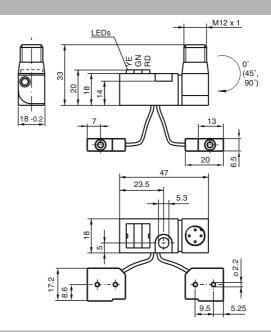
V1-G-2M-PUR H/S

Female cordset, M12, 4-pin, irradiated PUR cable

V1-W-2M-PUR H/S

Female cordset, M12, 4-pin, irradiated PUR cable

## **Dimensions**



**PNP** 

2 mm

≤ 10 µA

≤ 15 mA

100 mT

100 mT

1445 a

20 a 0 %

Dual NO

# **Technical Data**

General specifications
Switching element function
Detect exercises distance

Rated operating distance Installation  $s_n$ non-flush DC Output polarity Assured operating distance 0 ... 1.62 mm Reduction factor r<sub>Al</sub> 0.45 Reduction factor r<sub>Cu</sub> 0.35 Reduction factor r<sub>304</sub> 0.75

Nominal ratings

Operating voltage  $\mathsf{U}_\mathsf{B}$ 10 ... 30 V DC Switching frequency 0 ... 25 Hz reverse polarity protected

Reverse polarity protection Short-circuit protection pulsing Voltage drop Uд ≤ 3 V 0 ... 100 mA

Operating current ΙL Off-state current No-load supply current

В Constant magnetic field Alternating magnetic field В

Functional safety related parameters MTTF<sub>d</sub>
Mission Time (T<sub>M</sub>)
Diagnostic Coverage (DC)

Indicators/operating means

LED POWER LED, green Switching state 'Closed" = LED red (S02)/C

Ambient conditions

Ambient temperature -25 ... 70 °C (-13 ... 158 °F) -40 ... 85 °C (-40 ... 185 °F) Storage temperature

Mechanical specifications

Connection type Device connector M12 x 1 , 4-pin (160  $\pm$  5) mm, PUR (halogen-free) amplifier; PBT, PA6 + GD-ZN AL4 Flexible lead, housing-sensor

 $I_0$ 

oscillators; PBT **IP65** 

#### Protection degree Compliance with standards and directives

Standard conformity

Housing material

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.

"Open" = LED yellow (S01)/O