



# **Model Number**

NBN2-F581-100S6-E8-V1

# **Features**

- Extremely bright triple luminous band
- M12 plug with safety screw assembly adjustable in 45° grid
- For use in direct- and alternating-field welding systems
- Completely halogen and silicon free

# **Accessories**

### V1-G-OR2M-POC

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

# 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

# **Technical Data**

# General specifications

Switching function 2 x normally open (NO) Output type Rated operating distance PNP 2 mm Installation non-flush Output polarity DC Assured operating distance Reduction factor r<sub>Al</sub> 0 ... 1.62 mm 0.45 Reduction factor r<sub>Cu</sub> 0.35 Reduction factor r<sub>304</sub> 0.75 Output type 4-wire

#### Nominal ratings

Operating voltage  $\mathsf{U}_\mathsf{B}$ 10 ... 30 V DC Switching frequency 0 ... 25 Hz Reverse polarity protection reverse polarity protected Short-circuit protection pulsing  $U_d$ ≤3 V

Voltage drop Operating current 0 ... 100 mA Off-state current  $I_r$ ≤ 10 μA

≤ 15 mA 100 mT No-load supply current l₀ B Constant magnetic field Alternating magnetic field В 100 mT Operating voltage indicator LED green

Switching state "closed" = LED red (S2) Switching state indicator switching state "open" = LED yellow (S1)

#### Functional safety related parameters

 $\mathsf{MTTF}_\mathsf{d}$ 1445 a Mission Time (T<sub>M</sub>) 20 a Diagnostic Coverage (DC)

# Ambient conditions

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

# Mechanical specifications

Connection type Connector plug M12 x 1, 4-pin (100 ± 5) mm, PUR (halogen-free) amplifier; PBT, PA6 + GD-ZN AL4 Flexible lead, housing-sensor Housing material oscillators; PBT

Degree of protection

### Compliance with standards and directives

Standard conformity

EN 60947-5-2:2007 Standards EN 60947-5-2/A1:2012

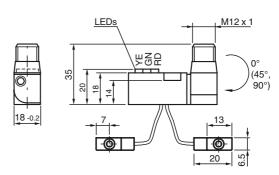
IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

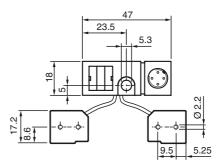
# Approvals and certificates

UL approval CCC approval cULus Listed, General Purpose

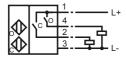
CCC approval / marking not required for products rated ≤36 V

# **Dimensions**





# **Electrical Connection**



# **Pinout**



Wire colors in accordance with EN 60947-5-2

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

**5**PEPPERL+FUCHS

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