



## **Model Number**

NBN2-F581-160S6-E8-V1

### **Features**

- Extremely bright triple luminous band
- M12 plug can be rotated  $0^{\circ},\,45^{\circ},\,\text{or}\,\,90^{\circ}$
- 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

### V1-G-2M-PUR-H/S

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

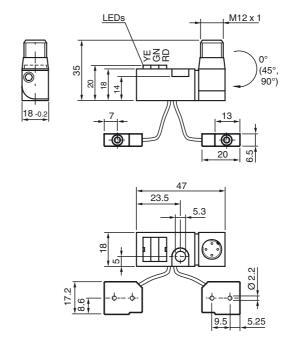
#### V1-W-2M-PUR-H/S

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

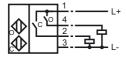
General specifications		
Switching function		2 x normally open (NO)
Output type		PNP
Rated operating distance	Sn	2 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	sa	0 1.62 mm
Reduction factor r <sub>Al</sub>		0.45
Reduction factor r <sub>Cu</sub>		0.35
Reduction factor r <sub>304</sub>		0.75
Output type		4-wire
Nominal ratings		
Operating voltage	U <sub>B</sub>	10 30 V DC
Switching frequency	f	0 25 Hz
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U <sub>d</sub>	≤3 V
Operating current	ΙL	0 100 mA
Off-state current	I <sub>r</sub>	
		≤ 10 µA
No-load supply current	I <sub>0</sub>	
0		≤ 15 mA
Constant magnetic field	В	100 mT
Alternating magnetic field	В	100 mT
Functional safety related parameter	ers	
MTTF <sub>d</sub>		1445 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
LED POWER		LED, green
Switching state		"Closed" = LED red (S02)/C
		"Open" = LED yellow (S01)/O
Ambient conditions		
Ambient temperature		-25 70 °C (-13 158 °F)
Storage temperature		-40 85 °C (-40 185 °F)
Mechanical specifications		
Connection type		Connector plug M12 x 1 , 4-pin
Flexible lead, housing-sensor		(160 ± 5) mm, PUR (halogen-free)
Housing material		amplifier; PBT, PA6 + GD-ZN AL4
		oscillators; PBT
Degree of protection		IP65
Compliance with standards and		
directives		
Standard conformity		
Standards		EN 60947-5-2:2007
		EN 60947-5-2/A1:2012
		IEC 60947-5-2:2007
		IEC 60947-5-2 AMD 1:2012
Approvals and certificates		
UL approval		UL Recognized
CCC approval		CCC approval / marking not required for products rated ≤36 V

### **Dimensions**

**Technical Data** 



# **Electrical Connection**



# **Pinout**



Wire colors in accordance with EN 60947-5-2

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

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