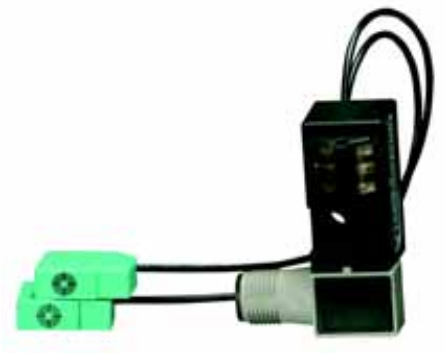


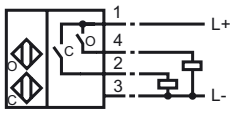
Model Number

NBN2-F581-120S6-E8-V1

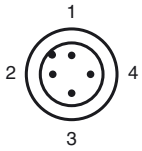
Features

- **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



Wire colors in accordance with EN 60947-5-2

1	BN
2	WH
3	BU
4	BK

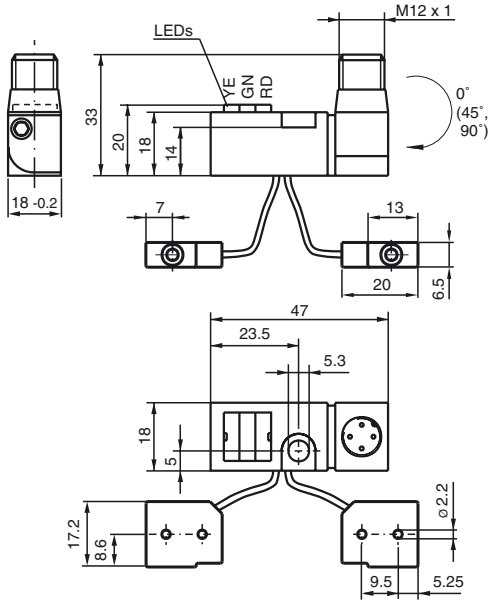
Accessories

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

Dimensions



Technical Data

General specifications		
Switching element function		PNP Dual NO
Rated operating distance	s_n	2 mm
Installation		not embeddable
Output polarity		DC
Assured operating distance	s_a	0 ... 1.62 mm
Reduction factor r_{Al}		0.45
Reduction factor r_{Cu}		0.35
Reduction factor r_{V2A}		0.75
Nominal ratings		
Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	0 ... 25 Hz
Reverse polarity protected		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	≤ 10 µA
No-load supply current	I_0	≤ 15 mA
Constant magnetic field	B	100 mT
Alternating magnetic field	B	100 mT
Indicators/operating means		
LED POWER		LED, green
Switching state		"Closed" = LED red (S02)/C "Open" = LED yellow (S01)/O
Standard conformity		
EMC in accordance with		IEC / EN 60947-5-2:2004
Standards		IEC / EN 60947-5-2:2004
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		Device connector M12 x 1 , 4-pin
Flexible lead, housing-sensor		(120 ± 5) mm, PUR (halogen-free)
Housing material		amplifier; PBT, PA6 + GD-ZN AL4 oscillators; PBT
Protection degree		IP65
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.

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