







Model Number

NBN2-F581-100S6-E8-V1

Features

- Extremely bright triple luminous band indication
- 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

actional opcomoditions	
Switching element function	
Rated operating distance	s _n
Installation	
Output polarity	
Assured operating distance	sa
Reduction factor r _{Al}	
Reduction factor r _{Cu}	
Reduction factor r ₃₀₄	
Nominal ratings	
On arating valtage	- 11

ominal ratings		
Operating voltage	UB	10 30 V DC
Switching frequency	f	0 25 Hz
Reverse polarity protection		reverse polarity protected
Short-circuit protection		nuleina

PNP

2 mm non-flush switched high 0 ... 1.62 mm 0.45 0.35

≤ 3 V 0 ... 100 mA ≤ 10 µA

Dual NO

Short-circuit protection	
Voltage drop	U_d
Operating current	IL.
Off-state current	l _r

No-load supply current	10	Am ci ≥
Constant magnetic field	В	100 mT
Alternating magnetic field	В	100 mT
Operating voltage indicator		LED green
Constant in a state in all and an		Curitohina

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

Functional safety related parameters	
MTTF _d	1445 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Standard conformity EMC in accordance with IEC / EN 60947-5-2:2004 Standards IEC / EN 60947-5-2:2004

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

Storage temperature Mechanical specifications Connection type Connector M12 x 1, 4-pin

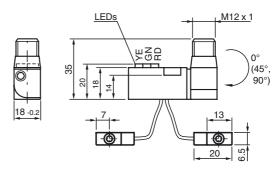
(100 ± 5) mm, PUR (halogen-free) amplifier; PBT, PA6 + GD-ZN AL4 Flexible lead, housing-sensor Housing material oscillators: PBT Protection degree IP65

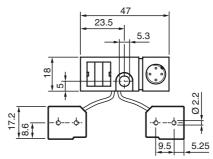
Approvals and certificates

UL approval cULus Listed, General Purpose cCSAus Listed, General Purpose CSA approval

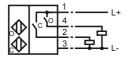
CCC approval CCC approval / marking not required for products rated ≤36 V

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)