

Inductive power clamp sensor NBN2-F581-200S6-E8-V1

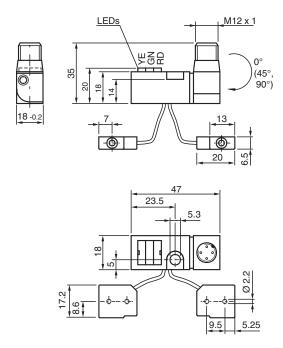
- Extremely bright triple luminous band indication
- M12 plug can be rotated 0°, 45°, or 90°
- For use in direct- and alternating-field welding systems
- Completely halogen and silicon free







Dimensions

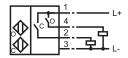


Technical Data

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 _{Al}		0.45
Reduction factor r _{Cu}		0.35
Reduction factor r ₃₀₄		0.75
Output type		4-wire
Nominal ratings		
Operating voltage	U _B	10 30 V DC

Technical Data		
Switching frequency	f	0 25 Hz
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_{d}	≤3 V
Operating current	ال	0 100 mA
Off-state current	l _r	≤ 10 µA
No-load supply current	I_0	≤ 15 mA
Constant magnetic field	В	100 mT
Alternating magnetic field	В	100 mT
Functional safety related parameters		
MTTF _d		1445 a
Mission Time (T _M)		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
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤36 V
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		(200 ± 5) mm, PUR (halogen-free)
Housing material		amplifier; PBT, PA6 + GD-ZN AL4 oscillators; PBT
Degree of protection		IP65

Connection



Connection Assignment



Connection Assignment

Wire colors in accordance with EN 60947-5-2

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