

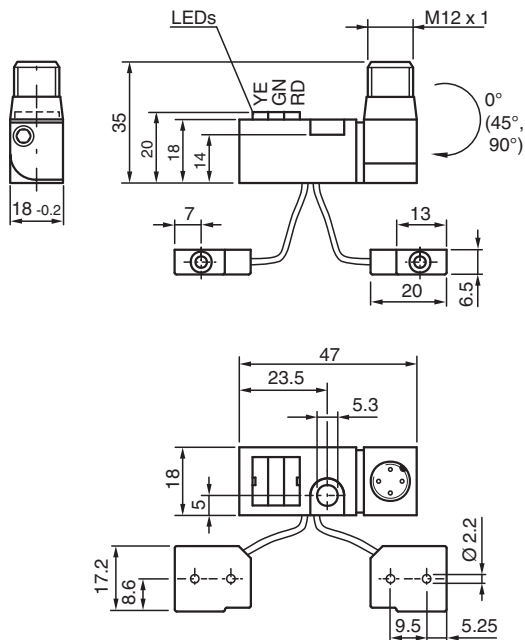
Inductive power clamp sensor

NBN2-F581-140S6-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	s_n	2 mm
Installation		non-flush
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_{304}		0.75
Output type		4-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V DC
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Technical Data

Switching frequency	f	0 ... 25 Hz
Reverse polarity protection		yes
Short-circuit protection		yes
Voltage drop	U_d	$\leq 3 \text{ V}$
Operating current	I_L	0 ... 100 mA
Off-state current	I_r	$\leq 10 \mu\text{A}$
No-load supply current	I_0	$\leq 15 \text{ mA}$
Constant magnetic field	B	100 mT
Alternating magnetic field	B	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 $\leq 36 \text{ V}$
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		Connector plug
Flexible lead, housing-sensor		(140 ± 5) mm, PUR (halogen-free)
Housing material		amplifier; PBT, PA6 + GD-ZN AL4 oscillators; PBT
Degree of protection		IP65
Connector		
Threading		M12 x 1
Number of pins		4

Connection

