

Inductive power clamp sensor NBN2-F58E-100S3-E8-V1

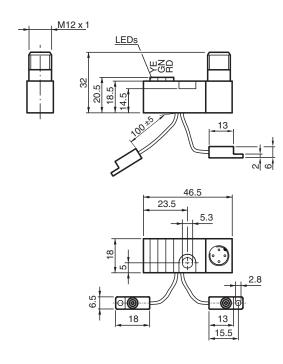
- Extremely bright triple luminous band indication
- For use in direct- and alternating-field welding systems
- Completely halogen and silicon free







Dimensions

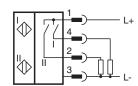


Technical Data

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 _{AI}		0.35
Reduction factor r _{Cu}		0.35
Reduction factor r ₃₀₄		0.7

Technical Data		
Reduction factor r _{Brass}		0.45
Output type		4-wire
lominal ratings		
Operating voltage	U_B	10 30 V
Switching frequency	f	0 100 Hz
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤3 V
Rated insulation voltage	U _{BIS}	60 V
Operating current	IL	0 100 mA
Off-state current	l _r	$0 \dots 0.5$ mA typ. 0.1 μA at 25 $^{\circ} C$
No-load supply current	I_0	≤ 15 mA
Constant magnetic field	В	100 mT
Alternating magnetic field	В	100 mT
Tuning-out		typically 1 s
Operating voltage indicator		LED green
Switching state indicator		Switching state "closed" = LED red (S2) switching state "open" = LED yellow (S1)
unctional safety related parameters		
$MTTF_d$		1445 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
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		cULus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Ambient temperature		-25 50 °C (-13 122 °F)
Storage temperature		-40 85 °C (-40 185 °F)
Mechanical specifications		
Connection type		Connector plug M12 x 1 , 4-pin
Flexible lead, housing-sensor		PUR (halogen-free)
Housing material		amplifier; PBT, PA6 + GD-ZN AL4 oscillators; PBT
Degree of protection		IP65
Protection class		

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

Additional Information

Safety instructions

Laws and/or regulations and standards governing the use or intended usage goal must be observed.

No changes can be made to the device. Repairs are not possible.

Protection class II (protective isolation) is only reached under the stated mounting conditions.

Accessories



V1-G-OR2M-POC

Female cordset single-ended M12 straight A-coded, 4-pin, POC cable welding-bead resistant orange, suitable for robotic applications, torsion resistant, oil resistant, molecularly cross-linked