



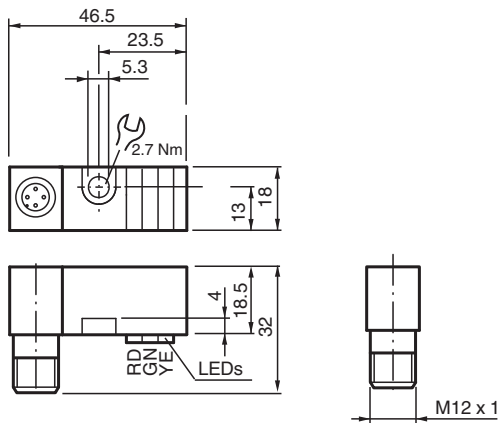
Inductive power clamp sensor NBxx-F58E1x3-E8-V1

- Technical data are only valid if satellite unit is connected
- Completely halogen and silicon free
- Extremely bright triple luminous band indication
- Orientation of the coding of the connector plug to position 1
- For use in direct- and alternating-field welding systems

Amplifier unit



Dimensions



Technical Data

General specifications

Switching function	2 x normally open (NO)
Output type	PNP
Output polarity	DC
Output type	4-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 1500 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	I_L	0 ... 100 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0	≤ 25 mA
Constant magnetic field	B	300 mT
Alternating magnetic field	B	300 mT
Tuning-out		yes

Release date: 2024-10-16 Date of issue: 2024-10-16 Filename: 70164256_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

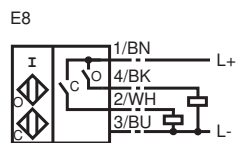
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

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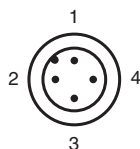
Technical Data

Operating voltage indicator	LED green
Switching state indicator	Switching state "closed" = LED red (S2) switching state "open" = LED yellow (S1)
Functional safety related parameters	
MTTF _d	950 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %
Compliance with standards and directives	
Standard conformity	
Standards	EN IEC 60947-5-2
Approvals and certificates	
UL approval	cULus Listed, General Purpose, Class 2 Power Source
CCC approval	CCC approval / marking not required for products rated ≤36 V
Ambient conditions	
Ambient temperature	0 ... 50 °C (32 ... 122 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Pollution degree	2
Mechanical specifications	
Connection type	Connector plug M12 x 1 , 4-pin
Housing material	PA66
Degree of protection	IP65
Dimensions	
Height	18.5 mm
Width	18 mm
Length	46.5 mm
Note	only for use with satellite unit NBN2-F58xx... family

Connection



Connection Assignment

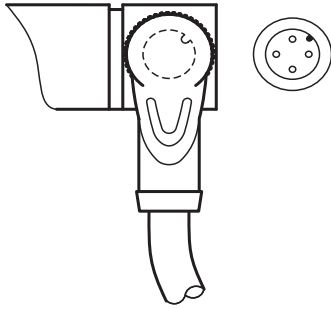


Wire colors in accordance with EN 60947-5-2

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

Assembly

Orientation of the female cordset in angled design



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.