



Inductive power clamp sensor

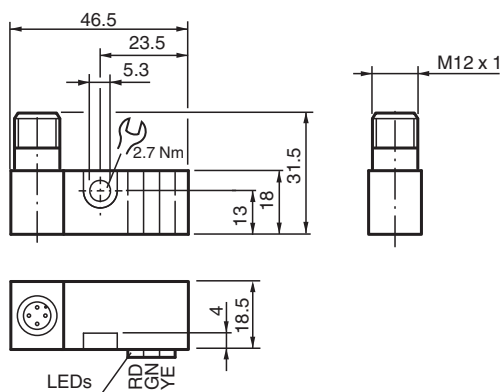
NBxx-F58D3x3-E8-V1

- 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 3

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	≤ 16 mA
Constant magnetic field	B	300 mT
Alternating magnetic field	B	300 mT
Operating voltage indicator		LED green
Switching state indicator		Switching state "closed" = LED red (S2) switching state "open" = LED yellow (S1)

Release date: 2024-07-11 Date of issue: 2024-07-11 Filename: 70164255_eng.pdf

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

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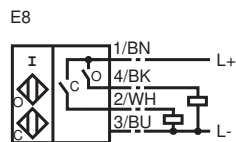
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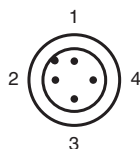
Technical Data

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
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)
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

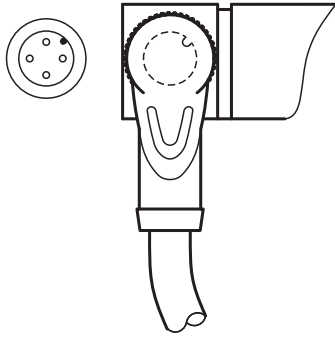


Wire colors in accordance with EN 60947-5-2

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.