



## Inductive power clamp sensor

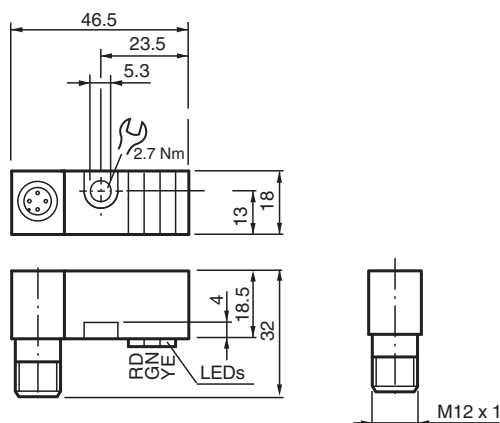
### NBxx-F58E1x3-E8-V1

- 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

#### 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 ... 100 Hz
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 3$ 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 $\mu$ A at 25 °C
No-load supply current	$I_0$	$\leq 15$ mA
Constant magnetic field	B	100 mT
Alternating magnetic field	B	100 mT
Tuning-out		typically 1 s

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

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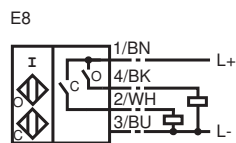
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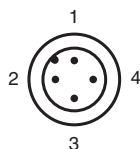
Technical Data

Operating voltage indicator	LED green
Switching state indicator	Switching state "closed" = LED red (S2) switching state "open" = LED yellow (S1)
<b>Functional safety related parameters</b>	
MTTF <sub>d</sub>	1000 a
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %
<b>Compliance with standards and directives</b>	
Standard conformity	
Standards	EN IEC 60947-5-2
<b>Approvals and certificates</b>	
UL approval	cULus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated ≤36 V
<b>Ambient conditions</b>	
Ambient temperature	-25 ... 50 °C (-13 ... 122 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
<b>Mechanical specifications</b>	
Connection type	Connector plug M12 x 1 , 4-pin
Housing material	PA66
Degree of protection	IP65
Protection class	II
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

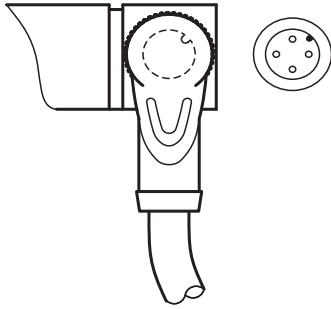


Wire colors in accordance with EN 60947-5-2

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.