









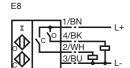
# **Model Number**

NBN2-F583W-100S18-E8-V1

# **Features**

- Extremely bright triple luminous band indication
- M12 plug with safety screw assembly adjustable in 45° grid
- For use in direct- and alternating-field welding systems
- · Completely halogen and silicon free

### Connection



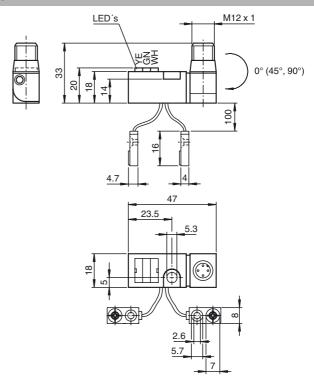
# **Pinout**



Wire colors in accordance with EN 60947-5-2

BN	(brown
WH	(white)
BU	(blue)
BK	(black)
	WH BU

# **Dimensions**



# **Technical Data**

General specifications			
Switching element function		PNP	Dual NO
Rated operating distance	s <sub>n</sub>	2 mm	
Installation		non-flus	sh
Output polarity		switche	d high
Assured operating distance	sa	0 1.6	2 mm
Reduction factor r <sub>Al</sub>		0.45	
Reduction factor ro		0.35	

Reduction factor r<sub>304</sub>
Nominal ratings

Nominai ratings		
Operating voltage	UB	10 30 V
Switching frequency	f	0 100 Hz
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U <sub>d</sub>	≤ 3 V
Rated insulation voltage	U <sub>BIS</sub>	60 V
Operating current	IL	0 100 mA
No-load supply current	I <sub>0</sub>	≤ 15 mA
Constant magnetic field	В	100 mT

100 mT

Tuning-out typically 1 s

Operating voltage display LED green
Indication of the switching state switching state "close" = LED white switching state "open" = LED yellow

Functional safety related parameters

MTTF <sub>d</sub>	1620 a
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

 Ambient temperature
 0 ... 50 °C (32 ... 122 °F)

 Storage temperature
 -40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

Alternating magnetic field

Connection type

Flexible lead, housing-sensor

Housing material

Device connector M12 x 1 , 4-pin

PUR (halogen-free); Outlet position - 3

amplifier; PBT, PA6 + GD-ZN AL4

oscillators; PBT

Protection degree IP65
Protection class II

Compliance with standards and directives

Standard conformity

Standards EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

UL approval cULus Listed, General Purpose CSA approval cCSAus Listed, General Purpose

CCC approval Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

www.pepperl-fuchs.com

#### 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.

# Mechanical protection of the oscillator leads:

The leads must be laid such that they are protected from damage due to external mechanical effects

Special care must be taken when installing the devices to ensure that they do not become damaged in any way.