



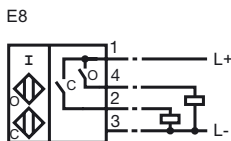
Model Number

NBN2-F583W-100S3-E8-V1

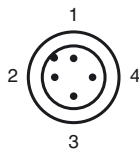
Features

- Basic series
- 2 mm not embeddable
- 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



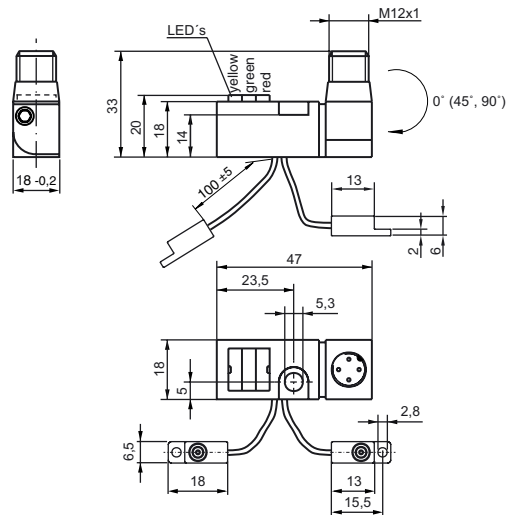
Pinout



Wire colors in accordance with EN 60947-5-2

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

Dimensions



Technical Data

General specifications

Switching element function	PNP	Dual NO
Rated operating distance	s_n	2 mm
Installation	not embeddable	
Output polarity	switched high	
Assured operating distance	s_a	0 ... 1.62 mm
Reduction factor r_{AI}	0.45	
Reduction factor r_{Cu}	0.35	
Reduction factor r_{304}	0.75	

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 100 Hz
Reverse polarity protected	reverse polarity protected	
Short-circuit protection	pulsing	
Voltage drop	U_d	≤ 3 V
Operating current	I_L	0 ... 100 mA
No-load supply current	I_0	≤ 15 mA
Constant magnetic field	B	100 mT
Alternating magnetic field	B	100 mT
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 _d	1445 a
Mission Time (T_M)	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

Connection type	Device connector M12 x 1, 4-pin
Flexible lead, housing-sensor	PUR (halogen-free); Outlet position - 3
Housing material	amplifier; PBT, PA6 + GD-ZN AL4 oscillators; PBT
Sensing face	PBT
Protection degree	IP65

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.

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