

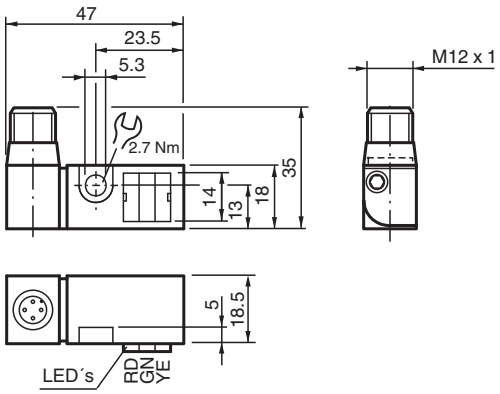
Inductive power clamp sensor

NBxx-F58A3x3-E8-V1

- Technical data are only valid if satellite unit is connected
- Completely halogen and silicon free
- M12 plug with safety screw assembly adjustable in 45° grid
- Orientation of the coding of the connector plug to position 3
- Extremely bright triple luminous band indication

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 µA 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)

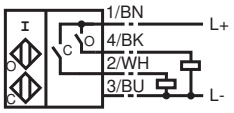
Release date: 2026-03-20 Date of issue: 2026-03-20 Filename: 70164254_eng.pdf

Technical Data

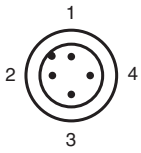
Safety-relevant product characteristics		
$MTTF_d$		950 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus Listed Load Type: General Purpose Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 30 V DC Output Switching Current: 100 mA
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
Housing material		PA66
Degree of protection		IP65
Connector		
Threading		M12 x 1
Number of pins		4
Mass		35 g
Dimensions		
Height		18.5 mm
Width		18 mm
Length		47 mm
Note		only for use with satellite unit NBN2-F58xx... family

Connection

E8



Connection Assignment



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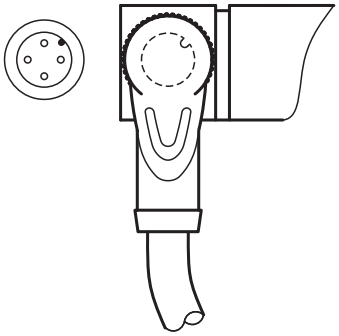
Connection Assignment

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



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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.

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