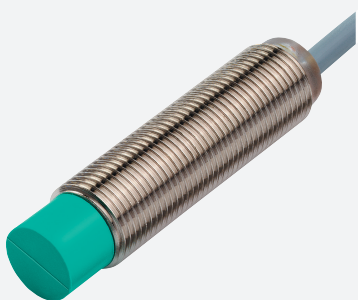




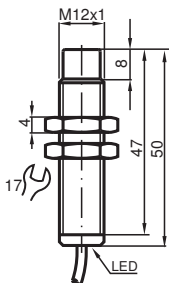
Inductive sensor

NBN8-12GM50-A0

- 8 mm non-flush
- Increased operating distance



Dimensions



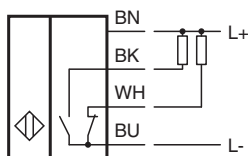
Technical Data

General specifications		
Switching function		complementary
Output type		NPN
Rated operating distance	s _n	8 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s _a	0 ... 6.48 mm
Reduction factor r _{Al}		0.39
Reduction factor r _{Cu}		0.35
Reduction factor r ₃₀₄		0.7
Nominal ratings		
Operating voltage	U _B	10 ... 30 V
Switching frequency	f	0 ... 1500 Hz

Technical Data

Hysteresis	H	typ. 5%
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 3 \text{ V}$
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μA at 25 °C
Switching state indicator		all direction LED, yellow
Functional safety related parameters		
MTTF _d		1702 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
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		CCC approval / marking not required for products rated $\leq 36 \text{ V}$
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		cable PVC , 2 m
Core cross-section		0.14 mm ²
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67
General information		
Scope of delivery		2 self locking nuts in scope of delivery

Connection



Accessories

	BF 12	Mounting flange, 12 mm
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