

Inductive sensor

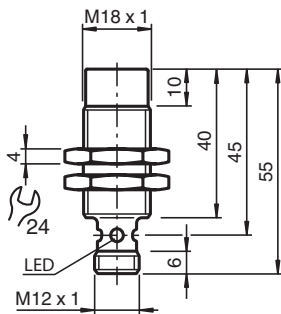
NBN8-18GM40-Z3-V1



- Basic series
- 8 mm non-flush
- 2-wire DC



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		Two-wire
Rated operating distance	s _n	8 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s _a	0 ... 6.5 mm
Actual operating distance	s _r	7.2 ... 8.8 mm typ. 8 mm
Reduction factor r _{Al}		0.43
Reduction factor r _{Cu}		0.42
Reduction factor r ₃₀₄		0.73
Output type		2-wire
Nominal ratings		
Operating voltage	U _B	5 ... 60 V
Switching frequency	f	0 ... 450 Hz
Hysteresis	H	1 ... 10 typ. 5 %

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

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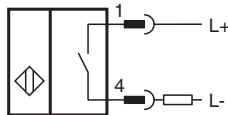
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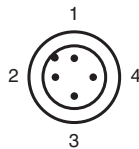
Technical Data

Reverse polarity protection		reverse polarity tolerant
Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 5\text{ V}$
Operating current	I_L	2 ... 100 mA
Lowest operating current	I_m	2 mA
Off-state current	I_r	0 ... 0.5 mA typ.
Switching state indicator		Multihole-LED, yellow
Functional safety related parameters		
MTTF _d		1694 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		Certified by China Compulsory Certification (CCC)
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		Connector M12 x 1 , 4-pin
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

Accessories

	BF 18-F	Plastic mounting adapter, 18 mm
	V1-G-2M-PUR	Female cordset, M12, 4-pin, PUR cable
	V1-W-2M-PUR	Female cordset, M12, 4-pin, PUR cable