



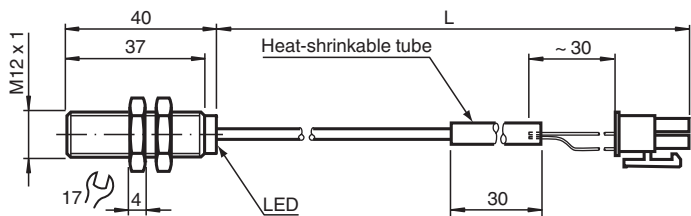
Inductive sensor

NCB4-12GM40-Z12-Y299271

■ 4 mm flush



Dimensions



Technical Data

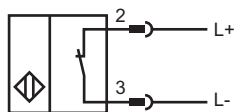
General specifications		
Switching function		Normally closed (NC)
Output type		Two-wire
Rated operating distance	s _n	4 mm
Installation		flush
Assured operating distance	s _a	0 ... 3.24 mm
Actual operating distance	s _r	3.6 ... 4.4 mm typ.
Reduction factor r _{Al}		0.41
Reduction factor r _{Cu}		0.39
Reduction factor r ₃₀₄		0.78
Nominal ratings		
Nominal voltage	U _o	8.2 V (R _i approx. 1 kΩ)
Switching frequency	f	0 ... 1500 Hz
Hysteresis	H	1 ... 15 typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		yes
Suitable for 2:1 technology		yes , Reverse polarity protection diode not required

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Technical Data

Current consumption		
Measuring plate not detected		min. 2.2 mA
Measuring plate detected		≤ 1 mA
Switching state indicator		all direction LED, yellow
Functional safety related parameters		
MTTF _d		3010 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Ambient temperature		-25 ... 100 °C (-13 ... 212 °F)
Storage temperature		-40 ... 100 °C (-40 ... 212 °F)
Mechanical specifications		
Connection type		cable PVC , L = 2.5 m Molex plug; 39-01-2040 Molex contact; 39-00-0046
Core cross-section		0.34 mm ²
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP66 / IP67
Cable		
Bending radius		> 10 x cable diameter
General information		
Scope of delivery		Supplied with 2 nuts Supplied with 2 toothed lock washers

Connection



Accessories

	BF 12	Mounting flange, 12 mm
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