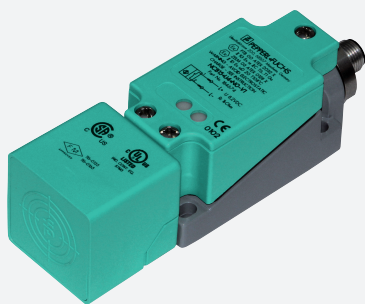




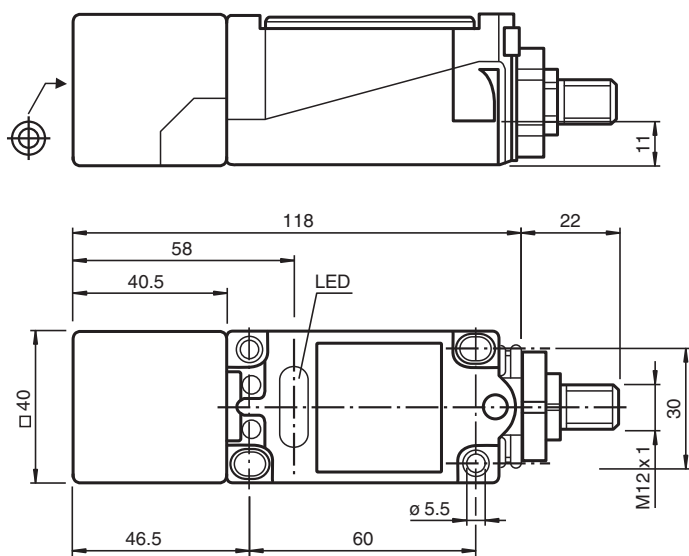
Inductive sensor

NCB15+U4+N0-V1

- Comfort series
- 15 mm flush



Dimensions



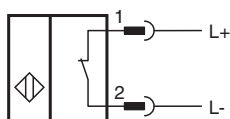
Technical Data

General specifications		
Switching function		Normally closed (NC)
Output type		NAMUR
Rated operating distance	s _n	15 mm
Installation		flush
Assured operating distance	s _a	0 ... 12.15 mm
Actual operating distance	s _r	13.5 ... 16.5 mm typ.
Reduction factor r _{AI}		0.28
Reduction factor r _{Cu}		0.25

Technical Data

Reduction factor r_{304}		0.75
Output type		2-wire
Nominal ratings		
Nominal voltage	U_o	8.2 V (R_i approx. 1 k Ω)
Switching frequency	f	0 ... 400 Hz
Hysteresis	H	1 ... 15 typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		yes
Current consumption		
Measuring plate not detected		min. 3 mA
Measuring plate detected		≤ 1 mA
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		5128 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
NAMUR		EN 60947-5-6:2000 IEC 60947-5-6:1999
Electromagnetic compatibility		NE 21:2007
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		
FM approval		
Control drawing		116-0165
UL approval		
Ordinary Location		E87056
Hazardous Location		E501628
Control drawing		116-0451
CSA approval		cCSAus 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		Connector plug M12 x 1 , 4-pin
Housing material		PBT/metal
Sensing face		PBT
Degree of protection		IP68
General information		
Use in the hazardous area		see instruction manuals

Connection



Wire colors in accordance with EN 60947-5-6

1		BN	(brown)
2		BU	(blue)

Accessories

	MHW 01	Modular mounting bracket
	MH 04-2057B	Mounting aid for VariKont and +U1+
	V1-G-N-2M-PUR	Female cordset, M12, 2-pin, NAMUR, PUR cable
	V1-W-N-2M-PUR	Female cordset, M12, 2-pin, NAMUR, PUR cable

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