

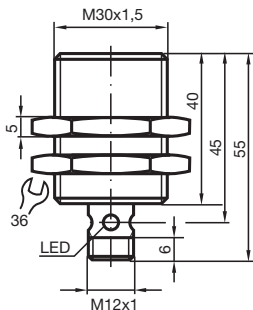
Inductive sensor

NCB15-30GM40-N0-V1

- 15 mm quasi flush
- Usable up to SIL 2 acc. to IEC 61508



Dimensions



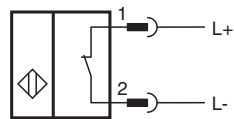
Technical Data

General specifications		
Switching function		Normally closed (NC)
Output type		NAMUR
Rated operating distance	s _n	15 mm
Installation		quasi flush
Assured operating distance	s _a	0 ... 12.15 mm
Actual operating distance	s _r	13.5 ... 16.5 mm typ.
Reduction factor r _{Al}		0.33
Reduction factor r _{Cu}		0.29
Reduction factor r ₃₀₄		0.76
Output type		2-wire
Nominal ratings		
Nominal voltage	U _o	8 V

Technical Data

Switching frequency	f	0 ... 450 Hz
Hysteresis	H	1 ... 15 typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		yes
Current consumption		
Measuring plate not detected		min. 2.2 mA
Measuring plate detected		≤ 1 mA
Switching state indicator		Multihole-LED, yellow
Functional safety related parameters		
MTTF _d		3068 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		
EAC conformity		TR CU 012/2011
FM approval		
Control drawing		116-0165
UL approval		
Ordinary Location		E87056
Hazardous Location		E501628
Control drawing		116-0452
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
Core cross-section		-
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP66 / IP67
Equipment protection level Dc (tc)		
Special conditions		
Maximum permissible ambient temperature T _{Umax}		Values can be obtained from the following list, depending on the max. operating voltage U _{Bmax} and the minimum series resistance R _v .
General information		
Use in the hazardous area		see instruction manuals

Connection

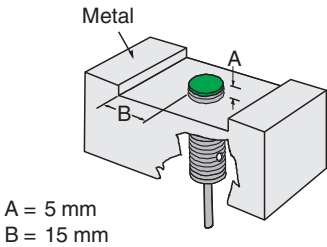


Wire colors in accordance with EN 60947-5-6

- | | | |
|---|----|---------|
| 1 | BN | (brown) |
| 2 | BU | (blue) |

Mounting

Installation conditions



A = 5 mm
B = 15 mm

Accessories

	BF 30	Mounting flange, 30 mm
	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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Accessories

	KCD2-SR-Ex1.LB	24 V DC
	KCD2-E2L	Sensor output interface terminal with lead breakage monitoring

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