



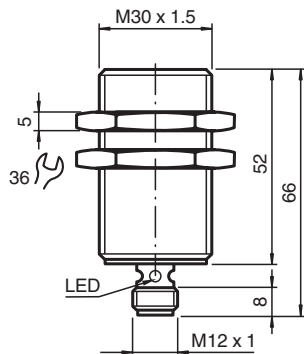
Inductive sensor

NEB20-30GS50-E2-V1

- Increased operating distance
- 20 mm quasi flush
- With increased sealing, protection class IP68 / IP69K



Dimensions



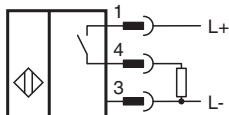
Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s _n	20 mm
Installation		quasi flush
Output polarity		DC
Assured operating distance	s _a	0 ... 16.2 mm
Reduction factor r _{Al}		0.35
Reduction factor r _{Cu}		0.25
Reduction factor r ₃₀₄		0.72
Output type		3-wire
Nominal ratings		
Installation conditions		
A		6 mm
B		37 mm
C		66 mm

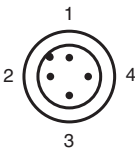
Technical Data

F		90 mm
Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 120 Hz
Hysteresis	H	2 ... 16 typ. 8 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	≤ 0.1 mA
No-load supply current	I_0	≤ 14 mA
Time delay before availability	t_v	max. 18 ms
Switching state indicator		Multihole-LED, yellow
Functional safety related parameters		
MTTF _d		1493 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, Class 2 Power Source
CCC approval		CCC approval / marking not required for products rated ≤ 36 V
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		Connector plug M12 x 1 , 4-pin
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP68 / IP69K
Mass		145 g
General information		
Scope of delivery		2 self locking nuts in scope of delivery

Connection



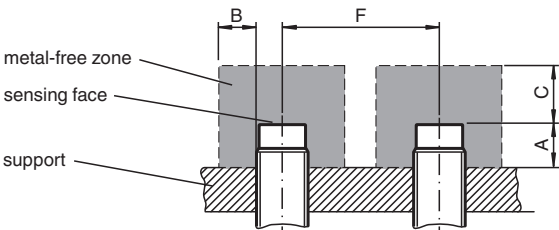
Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

Installation



Accessories

	BF 30	Mounting flange, 30 mm
	V1-G-2M-PUR	Female cordset, M12, 4-pin, PUR cable
	V1-W-2M-PUR	Female cordset, M12, 4-pin, PUR cable

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