

# Inductive sensor

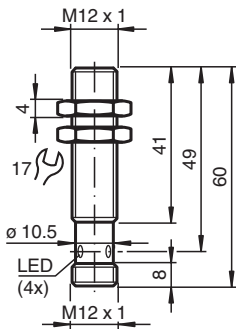
## NEB8-12GM50-E2-V1



- Increased operating distance
- 8 mm quasi flush



### Dimensions



### Technical Data

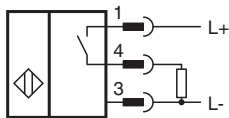
General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	$s_n$	8 mm
Installation		quasi flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 6.48 mm
Reduction factor $r_{Al}$		0.3
Reduction factor $r_{Cu}$		0.25
Reduction factor $r_{304}$		0.7
Reduction factor $r_{St37}$		1
Output type		3-wire
Nominal ratings		
Installation conditions		
A		2 mm
B		14 mm
C		24 mm

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## Technical Data

F		46 mm
Operating voltage	$U_B$	10 ... 30 V
Switching frequency	f	0 ... 400 Hz
Hysteresis	H	≤ 10 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		yes
Voltage drop	$U_d$	≤ 2 V
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	0 ... 0.1 mA typ. 0.1 μA at 25 °C
No-load supply current	$I_0$	≤ 10 mA
Switching state indicator		LED, yellow
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>		602 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN IEC 60947-5-2
<b>Approvals and certificates</b>		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤36 V
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
<b>Mechanical specifications</b>		
Connection type		Connector plug
Housing material		chromium plated brass
Sensing face		PBT
Degree of protection		IP67
Protection class		II
Connector		
Threading		M12 x 1
Number of pins		4
Mass		34 g
Dimensions		
Length		60 mm
Diameter		12 mm
Tightening torque		≤ 10 Nm (6 Nm for the first 10 mm thread length)

## 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 Conditions

