



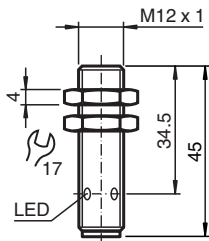
Inductive sensor

NBB4-12GM30-E0-V1

- 4 mm flush
- Increased operating distance



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		NPN
Rated operating distance	s _n	4 mm
Installation		flush
Output polarity		DC
Assured operating distance	s _a	0 ... 3.24 mm
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 12 mm x 12 mm x 1 mm
Reduction factor r _{Al}		0.5
Reduction factor r _{Cu}		0.4
Reduction factor r ₃₀₄		0.8
Reduction factor r _{Brass}		0.6
Output type		3-wire
Nominal ratings		
Operating voltage	U _B	10 ... 30 V
Switching frequency	f	0 ... 500 Hz

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

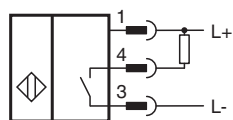
Pepperl+Fuchs Group USA: +1 330 486 0001 Germany: +49 621 776 1111 Singapore: +65 6779 9091
www.pepperl-fuchs.com fa-info@us.pepperl-fuchs.com fa-info@de.pepperl-fuchs.com fa-info@sg.pepperl-fuchs.com



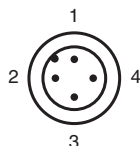
Technical Data

Hysteresis	H	typ. 5%
Reverse polarity protection		yes
Short-circuit protection		yes
Inductive overvoltage protection		yes
Surge suppression		yes
Voltage drop	U_d	$\leq 2.5\text{ V}$
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0.01 mA
No-load supply current	I_0	$\leq 7\text{ mA}$
Time delay before availability	t_v	40 ms
Switching state indicator		LED, yellow
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 $\leq 36\text{ V}$
Ambient conditions		
Ambient temperature		-25 ... 85 °C (-13 ... 185 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		Connector M12 x 1 , 4-pin
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67
Mass		13 g

Connection



Connection Assignment



Release date: 2020-03-24 Date of issue: 2020-03-30 Filename: 240895_eng.pdf

Wire colors in accordance with EN 60947-5-2

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