







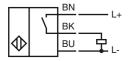
Model Number

NBB4-12GM50-E2

Features

- 4 mm flush
- · Increased operating distance

Connection



Accessories

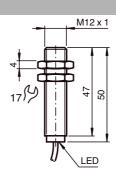
BF 12

Mounting flange, 12 mm

EXG-12

Quick mounting bracket with dead stop

Dimensions



Technical Data

General specifications			
	Switching element function		PNP NO
	Rated operating distance	s _n	4 mm
	Installation		flush
	Output polarity		DC
	Assured operating distance	sa	0 3.24 mm
	Reduction factor r _{Al}		0.39
	Reduction factor r _{Cu}		0.35
	Reduction factor r ₃₀₄		0.75
	Reduction factor r _{Brass}		0.49

Nominal ratings Operating voltage

Operating voltage	U _B	10 30 V
Switching frequency	f	0 800 Hz
Hysteresis	Н	typ. 5%
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U _d	≤ 3 V
Operating current	IL.	0 200 mA
Off-state current	l _r	0 0.5 mA typ. 0.1 μA at 25 °C
No-load supply current	I ₀	≤ 15 mA
Time delay before availability	t	< 5 me

LED, yellow

Indication of the switching state Functional safety related parameters

MTTF _d	1820
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature	-25 70 °C (-13 158 °F

Mechanical specifications

Connection type	cable PVC , 2 m
Cable version	3 x 0.14 mm ²
Core cross-section	0.14 mm ²
Housing material	brass, nickel-plated
Sensing face	PBT
Protection degree	IP67

General information

Scope of delivery 2 self locking nuts in scope of delivery

Compliance with standards and directives

Standard conformity

Standards	EN 60947-5-2:2007
	IEC 60947-5-2:2007

pprovals and certificates	
UL approval	cULus Listed, General Purpose

CSA approval cCSAus Listed, General Purpose Products with a maximum operating voltage of $\leq \!\! 36\,V$ do not bear a CCC approval

CCC marking because they do not require approval.

www.pepperl-fuchs.com