



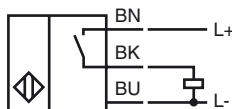
Model Number

NBB4-12GM40-E2

Features

- Basic series
- 4 mm flush
- Extended Range

Connection

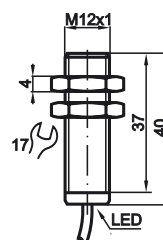


Accessories

BF 12

Mounting flange, 12 mm

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	s_a	0 ... 3.24 mm
Reduction factor r_{AI}		0.3
Reduction factor r_{Cu}		0.2
Reduction factor r_{304}		0.7

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	800 Hz
Hysteresis	H	typ. 5%
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	I_L	≤ 200
No-load supply current	I_0	≤ 20 mA
Indication of the switching state		LED, yellow

Functional safety related parameters

MTTF _d	3220 a
Mission Time (T_M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature	-40 ... 80 °C (-40 ... 176 °F)
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Mechanical specifications

Connection type	cable PVC, 2 m
Core cross-section	0.34 mm ²
Housing material	brass, nickel-plated
Sensing face	PBT
Protection degree	IP67

Compliance with standards and directives

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

Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	Products with a maximum operating voltage of ≤ 36 V do not bear a CCC marking because they do not require approval.