



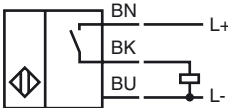
Model Number

NBB2-12GM60-E2-T

Features

- 2 mm flush
- Extended operating voltage range
- Extended temperature range

Connection

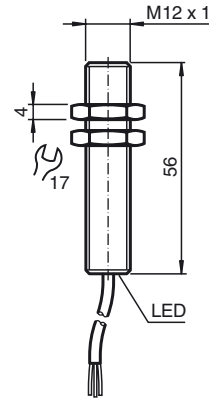


Accessories

BF 12

Mounting flange, 12 mm

Dimensions



Technical Data

General specifications

Switching element function		PNP	NO
Rated operating distance	s_n	2 mm	
Installation		flush	
Output polarity		DC	
Assured operating distance	s_a	0 ... 1.62 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}		0.35	
Reduction factor r_{Cu}		0.2	
Reduction factor r_{304}		0.7	
Reduction factor r_{Brass}		0.4	

Nominal ratings

Operating voltage	U_B	10 ... 65 V	
Switching frequency	f	0 ... 1200 Hz	
Hysteresis	H	0.02 ... 0.44	
Reverse polarity protection		yes	
Short-circuit protection		yes	
Overload resistance		yes	
Wire breakage protection		yes	
Inductive overvoltage protection		yes	
Surge suppression		yes	
Ripple		10 %	
Voltage drop	U_d	≤ 2.5 V	
Repeat accuracy		0.1 mm	
Operating current	I_L	0 ... 300 mA	
Off-state current	I_r	0.01 mA	
No-load supply current	I_0	≤ 10 mA	
Time delay before availability	t_v	≤ 40 ms	
Indication of the switching state		Multihole-LED, yellow	

Functional safety related parameters

MTTF _d	1510 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature	-25 ... 100 °C (-13 ... 212 °F)
Storage temperature	-40 ... 100 °C (-40 ... 212 °F)

Mechanical specifications

Connection type	cable PUR, 2 m
Core cross-section	0.25 mm ²
Housing material	brass, nickel-plated
Sensing face	PBT
Protection degree	IP67
Mass	75 g

Compliance with standards and directives

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