



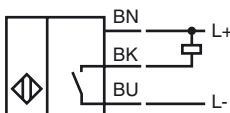
Model Number

NEN10-12GM50-E0

Features

- Increased operating distance
- 10 mm not embeddable

Connection



Accessories

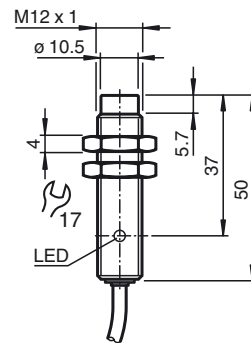
EXG-12

Quick mounting bracket with dead stop

BF 12

Mounting flange, 12 mm

Dimensions



Technical Data

General specifications

Switching element function		NPN	NO
Rated operating distance	s_n	10 mm	
Installation		not embeddable	
Output polarity		DC	
Assured operating distance	s_a	0 ... 8.1 mm	
Actuating element		structural steel, e. g. 1.0037, SR235JR (formerly St37-2) 30 mm x 30 mm x 1 mm	
Reduction factor r_{Al}		0.45	
Reduction factor r_{Cu}		0.4	
Reduction factor r_{304}		0.75	
Reduction factor r_{Brass}		0.45	

Nominal ratings

Installation conditions

A	in steel 1.0037 (St37): 10 mm
B	16 mm
C	30 mm
F	42 mm

Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	0 ... 600 Hz
Hysteresis	H	0.06 ... 1 mm
Reverse polarity protected		yes
Short-circuit protection		pulsing
Overload resistance		yes
Wire breakage protection		yes
Surge suppression		yes
Ripple		10 %
Voltage drop	U_d	≤ 2 V
Repeat accuracy		0.3 mm
Operating current	I_L	0 ... 200 mA, above 70°C ≤ 150 mA
Off-state current	I_r	≤ 10 μ A
No-load supply current	I_0	≤ 15 mA
Indication of the switching state		LED, yellow

Functional safety related parameters

MTTF _d	1740 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature	-25 ... 85 °C (-13 ... 185 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

Connection type	cable PUR, 2 m
Core cross-section	0.34 mm ²
Housing material	brass, nickel-plated
Sensing face	PBT
Protection degree	IP67
Mass	100 g
Tightening torque, fastening screws	max. 10 Nm

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
CCC approval	Products with a maximum operating voltage of ≤ 36 V do not bear a CCC marking because they do not require approval.

Installation conditions

