



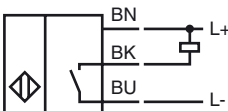
Model Number

NEB3-8GM45-E

Features

- 3 mm quasi-embeddable
- Increased operating distance

Connection

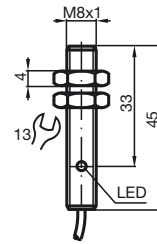


Accessories

BF 8

Mounting flange, 8 mm

Dimensions



Technical Data

General specifications

Switching element function	NPN	NO
Rated operating distance	s_n	3 mm
Installation	quasi embedd.	
Output polarity	DC	
Assured operating distance	s_a	0 ... 2.43 mm
Reduction factor r_{AI}	0.36	
Reduction factor r_{Cu}	0.27	
Reduction factor r_{304}	0.77	

Nominal ratings

Installation conditions		
A	0 mm	
B	6 mm	
C	9 mm	
F	16 mm	
Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 1000 Hz
Hysteresis	H	typ. 5%
Reverse polarity protected	reverse polarity protected	
Short-circuit protection	pulsing	
Voltage drop	U_d	≤ 2 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.1 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0	≤ 10 mA
Indication of the switching state	LED, yellow	

Functional safety related parameters

MTTF _d	311 a
Mission Time (T_M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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Mechanical specifications

Connection type	cable PUR , 2 m
Core cross-section	0.14 mm ²
Housing material	chromium plated brass
Sensing face	PBT
Protection degree	IP67

Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007 Non-standard connector assignment

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.

Installation conditions

