



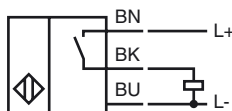
**Model Number**

NEB3-8GM45-E2

**Features**

- 3 mm quasi-embeddable
- Increased operating distance

**Connection**

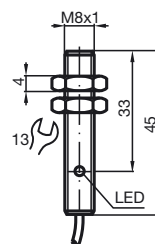


**Accessories**

**BF 8**

Mounting flange, 8 mm

**Dimensions**



**Technical Data**

**General specifications**

Switching element function	PNP	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	$U_d$	$\leq 2$ V
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	0 ... 0.1 mA typ. 0.1 $\mu$ A at 25 °C
No-load supply current	$I_0$	$\leq 10$ mA
Indication of the switching state	LED, yellow	

**Functional safety related parameters**

MTTF <sub>d</sub>	311 a
Mission Time (T <sub>M</sub> )	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 <sup>2</sup>
Housing material	chromium plated brass
Sensing face	PBT
Protection degree	IP67

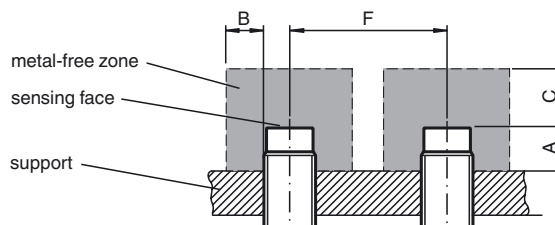
**Compliance with standards and directives**

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

**Approvals and certificates**

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

**Installation conditions**



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