



Model Number

NBB0,8-4M25-E2-V3

Features

- Basic series
- 0.8 mm flush

Accessories

BF 4

Mounting flange, 4 mm

Technical Data

General specifications

Switching function	Normally open (NO)
Output type	PNP
Rated operating distance	s_n 0.8 mm
Installation	flush
Output polarity	DC
Assured operating distance	s_a 0 ... 0.648 mm
Reduction factor r_{AI}	0.45
Reduction factor r_{CU}	0.4
Reduction factor r_{304}	0.85
Output type	3-wire

Nominal ratings

Operating voltage	U_B 10 ... 30 V
Switching frequency	f 0 ... 3000 Hz
Hysteresis	H typ. 5%
Reverse polarity protection	reverse polarity protected
Short-circuit protection	pulsing
Voltage drop	U_d ≤ 3 V
Operating current	I_L 0 ... 100 mA
Off-state current	I_r 0 ... 0.1 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0 ≤ 12 mA
Switching state indicator	LED, yellow

Functional safety related parameters

MTTF _d	1402 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	Connector M8 x 1, 3-pin
Housing material	Stainless steel 1.4305 / AISI 303
Sensing face	POM
Degree of protection	IP67

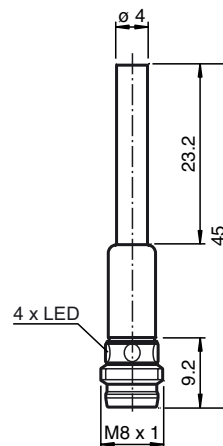
Compliance with standards and directives

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

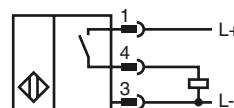
Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated ≤ 36 V

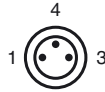
Dimensions



Electrical Connection



Pinout



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
3	BU	(blue)
4	BK	(black)

