



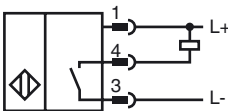
### Model Number

NBB1,5-8GM40-E0-V3

### Features

- Basic series
- 1.5 mm flush

### Connection



### Pinout



Wire colors in accordance with EN 60947-5-2

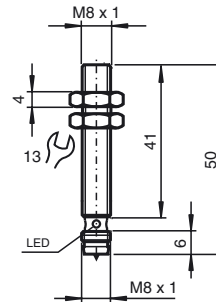
1	BN	(brown)
3	BU	(blue)
4	BK	(black)

### Accessories

#### EXG-08

Quick mounting bracket with dead stop

### Dimensions



### Technical Data

#### General specifications

Switching element function	NPN	NO
Rated operating distance	$s_n$	1.5 mm
Installation		flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 1.215 mm
Reduction factor $r_{AI}$		0.45
Reduction factor $r_{Cu}$		0.35
Reduction factor $r_{304}$		0.7

#### 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	$U_d$	$\leq 1.5$ V
Operating current	$I_L$	0 ... 100 mA
Off-state current	$I_r$	0 ... 0.5 mA typ. 0.1 $\mu$ A at 25 °C
No-load supply current	$I_0$	$\leq 10$ mA
Indication of the switching state		Multihole-LED, yellow

#### Functional safety related parameters

MTTF <sub>d</sub>	1870 a
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %

#### Ambient conditions

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

#### Mechanical specifications

Connection type	Device connector M8 x 1, 3-pin
Housing material	brass, nickel-plated
Sensing face	LCP
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.