



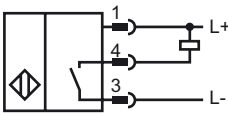
**Model Number**

NBN2-8GM40-E0-V3

**Features**

- Basic series
- 2 mm not embeddable

**Connection**



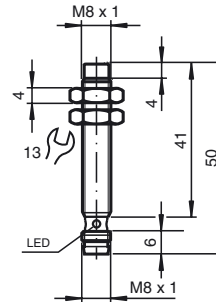
**Pinout**



Wire colors in accordance with EN 60947-5-2

1	BN
3	BU
4	BK

**Dimensions**



**Technical Data**

**General specifications**

Switching element function		NPN Make function
Rated operating distance	$s_n$	2 mm
Installation		not embeddable
Output polarity		DC
Assured operating distance	$s_a$	0 ... 1.62 mm
Reduction factor $r_{Al}$		0.45
Reduction factor $r_{Cu}$		0.35
Reduction factor $r_{V2A}$		0.7

**Nominal ratings**

Operating voltage	$U_B$	10 ... 30 V
Switching frequency	$f$	0 ... 2000 Hz
Hysteresis	$H$	typ. 5 %
Reverse polarity protection		protected against reverse polarity
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 %

**Standard conformity**

Standards	IEC / EN 60947-5-2:2004
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**Ambient conditions**

Ambient temperature	-25 ... 70 °C (248 ... 343 K)
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**Mechanical specifications**

Connection type	V3-connector
Housing material	brass, nickel-plated
Sensing face	PBT
Protection degree	IP67

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