



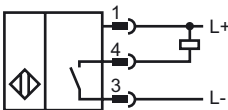
Model Number

NBN8-18GM50-E0-V1-M

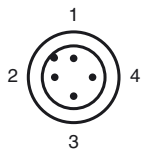
Features

- Basic series
- 8 mm not embeddable
- e1-Type approval

Connection



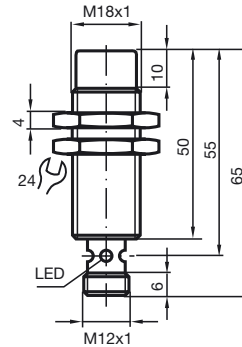
Pinout



Wire colors in accordance with EN 60947-5-2

1	BN
2	WH
3	BU
4	BK

Dimensions



Technical Data

General specifications

Switching element function	NPN	Make function
Rated operating distance	s_n	8 mm
Installation		not embeddable
Output polarity		DC
Assured operating distance	s_a	0 ... 6.48 mm
Reduction factor r_{Al}		0.5
Reduction factor r_{Cu}		0.4
Reduction factor r_{V2A}		0.7
Reduction factor r_{SI37}		

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 500 Hz
Reverse polarity protection		protected against reverse polarity
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0	≤ 18 mA
Indication of the switching state		Multihole-LED, yellow

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	V1-connector
Core cross-section	-
Housing material	brass, nickel-plated
Sensing face	PBT
Protection degree	IP67

Approvals and certificates

e1 Type approval	95/54/EC
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