



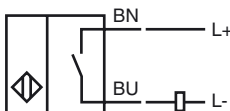
Model Number

NBN8-18GM40-Z0-Y241320

Features

- Basic series
- 8 mm non-flush
- 2-wire DC

Connection

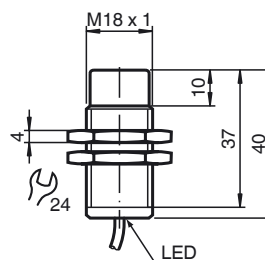


Accessories

BF 18

Mounting flange, 18 mm

Dimensions



Technical Data

General specifications

Switching element function	DC	NO
Rated operating distance	s_n	8 mm
Installation	non-flush	
Output polarity	DC	
Assured operating distance	s_a	0 ... 6.5 mm
Reduction factor r_{AI}	0.43	
Reduction factor r_{Cu}	0.42	
Reduction factor r_{304}	0.73	

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 500 Hz
Hysteresis	H	1 ... 10 typ. 5 %
Reverse polarity protection	reverse polarity tolerant	
Short-circuit protection	pulsing	
Voltage drop	U_d	≤ 5 V
Operating current	I_L	2 ... 100 mA
Lowest operating current	I_m	2 mA
Off-state current	I_r	0 ... 0.5 mA typ.
Switching state indication	all direction LED, yellow	

Functional safety related parameters

MTTF _d	1694 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	cable PVC, 2 m
Core cross-section	0.34 mm ²
Housing material	brass, nickel-plated
Sensing face	PBT
Protection degree	IP67

General information

Scope of delivery	2 toothed lock washers
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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 ≤ 36 V do not bear a CCC marking because they do not require approval.