



**Model Number**

**NBN8-18GM40-Z0**

**Features**

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

**Accessories**

**BF 18**  
Mounting flange, 18 mm

**Technical Data**

**General specifications**

Switching function	Normally open (NO)
Output type	Two-wire
Rated operating distance	$s_n$ 8 mm
Installation	non-flush
Output polarity	DC
Assured operating distance	$s_a$ 0 ... 6.5 mm
Actual operating distance	$s_r$ 7.2 ... 8.8 mm typ. 8 mm
Reduction factor $r_{AI}$	0.43
Reduction factor $r_{Cu}$	0.42
Reduction factor $r_{304}$	0.73
Output type	2-wire

**Nominal ratings**

Operating voltage	$U_B$	5 ... 60 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 indicator		all direction LED, yellow

**Functional safety related parameters**

MTTF <sub>d</sub>	1694 a
Mission Time (T <sub>M</sub> )	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 <sup>2</sup>
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67
Cable	
Cable diameter	4.8 mm ± 0.2 mm
Bending radius	> 10 x cable diameter

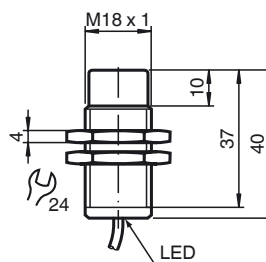
**Compliance with standards and directives**

Standard conformity	
Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

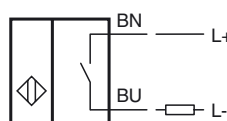
**Approvals and certificates**

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	Certified by China Compulsory Certification (CCC)

**Dimensions**



**Electrical Connection**



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