



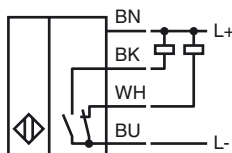
Model Number

NBN8-F1-A0

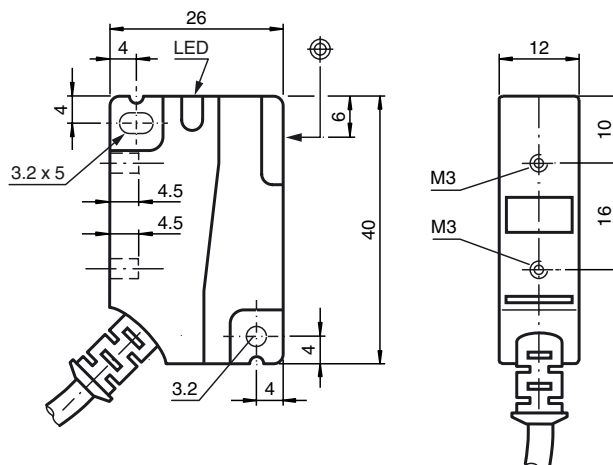
Features

- 8 mm non-flush
- 4-wire DC

Connection



Dimensions



Technical Data

General specifications	
Switching element function	NPN NO/NC
Rated operating distance	s_n 8 mm
Installation	non-flush
Output polarity	DC
Assured operating distance	s_a 0 ... 6.48 mm
Reduction factor r_{Al}	0.45
Reduction factor r_{Cu}	0.45
Reduction factor r_{304}	0.7
Reduction factor r_{Brass}	0.55
Nominal ratings	
Operating voltage	U_B 10 ... 30 V DC
Switching frequency	f 0 ... 1400 Hz
Hysteresis	H typ. 5%
Reverse polarity protected	reverse polarity protected
Short-circuit protection	pulsing
Voltage drop	U_d \leq 2.5 V
Operating current	I_L 0 ... 250 mA
Off-state current	I_r 0 ... 0.01 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0 \leq 15 mA
Indication of the switching state	LED, yellow
Functional safety related parameters	
MTTF _d	1530 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %
Ambient conditions	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications	
Connection type	cable PVC , 2 m
Core cross-section	0.5 mm ²
Housing material	PA
Sensing face	PA
Protection degree	IP67
Tightening torque, fastening screws	Threading M3 max: 1.1 Nm
Compliance with standards and directives	
Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates	
Protection class	II
Rated insulation voltage	U_i 60 V
Design-impulse-voltage withstand	U_{imp} 800 V
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.

Release date: 2012-06-04 10:29 Date of issue: 2012-06-04 184373_eng.xml