



Model Number

NBN3-8GS40-E0-PUR

Features

- 3 mm non-flush
- Increased operating distance
- Extended temperature range
-40 ... +85 °C

Accessories

BF 8

Mounting flange, 8 mm

Technical Data

General specifications

Switching function	Normally open (NO)
Output type	NPN
Rated operating distance	s_n 3 mm
Installation	non-flush
Output polarity	DC
Assured operating distance	s_a 0 ... 2.43 mm
Actuating element	mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 8 mm x 8 mm x 1 mm
Reduction factor r_{Al}	0.5
Reduction factor r_{Cu}	0.4
Reduction factor r_{304}	0.75
Reduction factor r_{Brass}	0.5
Output type	3-wire

Nominal ratings

Operating voltage	U_B 5 ... 30 V
Switching frequency	f 0 ... 4500 Hz
Hysteresis	H typ. 5%
Reverse polarity protection	reverse polarity protected
Short-circuit protection	pulsing
Voltage drop	U_d ≤ 1.5 V
Operating current	I_L 0 ... 100 mA
Off-state current	I_r 0 ... 0.2 mA
No-load supply current	I_0 ≤ 10 mA
Time delay before availability	t_v ≤ 100 ms
Switching state indicator	LED, yellow

Functional safety related parameters

MTTF _d	960 a
Mission Time (T_M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature	-40 ... 85 °C (-40 ... 185 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

Connection type	cable PUR, 2 m
Core cross-section	0.14 mm ²
Housing material	Stainless steel 1.4305 / AISI 303
Sensing face	LCP
Degree of protection	IP67

Cable	
Cable diameter	3.3 mm ± 0.15 mm
Bending radius	> 10 x cable diameter

General information

Scope of delivery	2 hex nuts included
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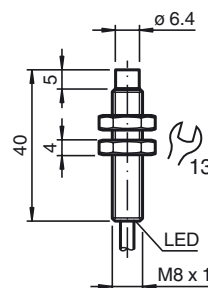
Compliance with standards and directives

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, Class 2 Power Source
CCC approval	CCC approval / marking not required for products rated ≤36 V

Dimensions





Electrical Connection

