



Model Number

NRN6-8GH40-E2

Features

- 6 mm non-flush
- Reduction factor = 1
- Magnetic field resistant
- Stainless steel housing
- Front face FDA conform

Technical Data

General specifications

Switching function	Normally open (NO)
Output type	PNP
Rated operating distance	s_n 6 mm
Installation	non-flush
Output polarity	DC
Assured operating distance	s_a 0 ... 4.86 mm
Reduction factor r_{AI}	1
Reduction factor r_{CU}	1
Reduction factor r_{304}	1
Reduction factor r_{Si37}	1
Output type	3-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	0 ... 2500 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2.5 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	≤ 15 mA
Constant magnetic field	B	200 mT
Alternating magnetic field	B	200 mT
Switching state indicator		LED, yellow

Functional safety related parameters

MTTF _d	1010.5 a
Mission Time (T_M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature	-25 ... 85 °C (-13 ... 185 °F)
Storage temperature	-40 ... 100 °C (-40 ... 212 °F)

Mechanical specifications

Connection type	cable PVC, 2 m
Core cross-section	0.14 mm ²
Housing material	stainless steel 1.4404 / AISI 316L
Sensing face	LCP, (conforms with FDA)
Degree of protection	IP67

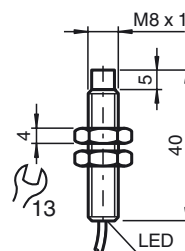
Compliance with standards and directives

Standard conformity	EN 60947-5-2:2007
Standards	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

