



### 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 element function		PNP	NO
Rated operating distance	$s_n$	6 mm	
Installation		non-flush	
Output polarity		switched high	
Assured operating distance	$s_a$	0 ... 4.86 mm	
Reduction factor $r_{Al}$		1	
Reduction factor $r_{Cu}$		1	
Reduction factor $r_{304}$		1	
Reduction factor $r_{S37}$		1	

### 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 μA 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 <sub>d</sub>	1010.5 a
Mission Time (T <sub>M</sub> )	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 <sup>2</sup>
Housing material	stainless steel 1.4404 / AISI 316L
Sensing face	LCP, (conforms with FDA)
Degree of protection	IP67

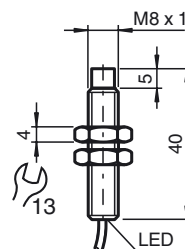
### Compliance with standards and directives

Standard conformity	
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

