

# Inductive sensor

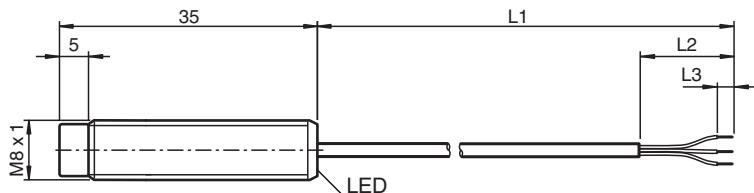
## NBN2,5-8GM35-E1L-Y



- 2.5 mm non-flush
- Magnetic field resistant



### Dimensions



### Technical Data

Release date: 2024-05-27 Date of issue: 2024-05-29 Filename: 70134664\_eng.pdf

#### General specifications

Switching function	Normally closed (NC)	
Output type	NPN	
Rated operating distance	$s_n$	2.5 mm
Installation	non-flush	
Output polarity	DC	
Assured operating distance	$s_a$	0 ... 2.03 mm
Reduction factor $r_{AI}$	0.45	
Reduction factor $r_{Cu}$	0.35	
Reduction factor $r_{304}$	0.75	
Output type	3-wire	

#### Nominal ratings

Nominal voltage	$U_o$	5 V
Operating voltage	$U_B$	4.75 ... 5.25 V
Switching frequency	$f$	0 ... 800 Hz
Reverse polarity protection	no	
Short-circuit protection	no	
Voltage drop	$U_d$	$\leq 1$ V
Operating current	$I_L$	0 ... 40 mA
Off-state current	$I_r$	$\leq 50$ $\mu$ A
No-load supply current	$I_0$	$\leq 10$ mA
Switching state indicator	LED, red	

#### Compliance with standards and directives

Standard conformity	
Standards	EN IEC 60947-5-2

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

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## Technical Data

### Ambient conditions

Ambient temperature	10 ... 80 °C (50 ... 176 °F)
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### Mechanical specifications

Connection type	cable
Housing material	brass, nickel-plated
Sensing face	LCP, black
Degree of protection	IP65
Cable	
Cable diameter	3.5 mm ± 0.1 mm
Material	PVC
Color	black
Core cross section	0.14 mm <sup>2</sup>
Length	L L1 = 2 m ± 25 mm L2 = 50 mm ± 2 mm L3 = 5 mm stripped and tinned
Dimensions	
Length	30 mm
Diameter	8 mm

## Connection

