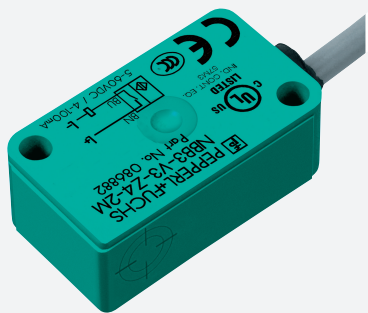




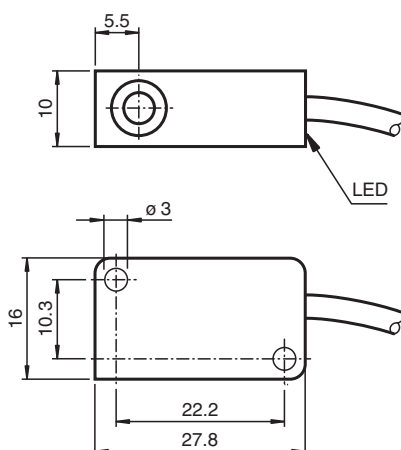
Inductive sensor

NBB2-V3-Z4L-3G-3D

- 2 mm flush
- 2-wire DC sensor with minimum off-state current
- Switching status indicator, yellow LED
- ATEX-approval for zone 2 and zone 22



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		Two-wire with minimum off-state current
Rated operating distance	s_n	2 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 1.62 mm
Actual operating distance	s_r	1.8 ... 2.2 mm typ.
Reduction factor r_{AI}		0.25
Reduction factor r_{Cu}		0.2
Reduction factor r_{304}		0.7
Output type		2-wire

Nominal ratings

Operating voltage	U_B	3.7 ... 30 V DC
Switching frequency	f	0 ... 700 Hz
Hysteresis	H	1 ... 10 typ. 5 %

Technical Data

Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 3.7 \text{ V}$
Operating current	I_L	2 ... 30 mA
Lowest operating current	I_m	2 mA
Off-state current	I_r	$\leq 190 \mu\text{A}$
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		1879 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
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
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		cable PVC , 130 mm
Core cross-section		0.14 mm ²
Housing material		PBT
Sensing face		PBT
Degree of protection		IP67

Connection

