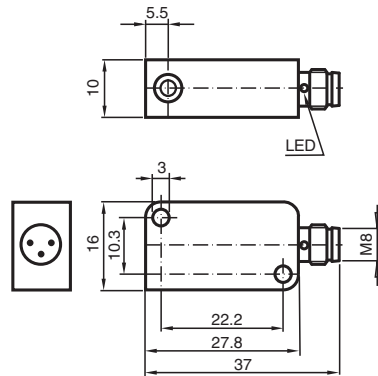


Inductive sensor NBN6-V3-E0-V3

- 6 mm non-flush
- 3-wire DC



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		NPN
Rated operating distance	s_n	6 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 4.8 mm
Reduction factor r_{Al}		0.35
Reduction factor r_{Cu}		0.2
Reduction factor r_{304}		0.7
Output type		3-wire

Nominal ratings

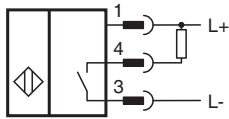
Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	0 ... 1000 Hz
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	I_L	0 ... 100 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0	≤ 15 mA

Release date: 2024-05-28 Date of issue: 2024-06-07 Filename: 225245_eng.pdf

Technical Data

Switching state indicator	LED, yellow
Functional safety related parameters	
MTTF _d	1920 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %
Compliance with standards and directives	
Standard conformity	
Standards	EN IEC 60947-5-2
Approvals and certificates	
CCC approval	CCC approval / marking not required for products rated ≤36 V
Ambient conditions	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications	
Connection type	Connector plug M8 x 1 , 3-pin
Housing material	PBT
Sensing face	PBT
Degree of protection	IP67
Tightening torque, fastening screws	≤ 0.4 Nm
Dimensions	
Height	10.2 mm
Width	27.8 mm
Length	16 mm

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
3	BU	(blue)
4	BK	(black)