

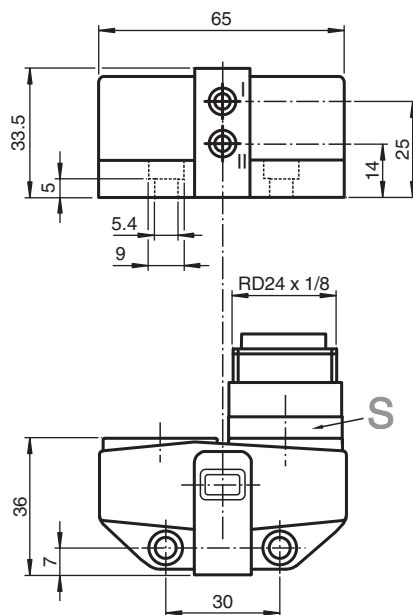
Inductive sensor

NBN3-F31-Z8-V164-Y218849

- Direct mounting on standard actuators
- Fixed setting



Dimensions



Technical Data

General specifications		
Switching function		2 x normally open (NO)
Output type		Two-wire
Rated operating distance	s_n	3 mm
Installation		flush mountable
Output polarity		DC
Assured operating distance	s_a	0 ... 2.43 mm
Actual operating distance	s_r	2.7 ... 3.3 mm typ. 3 mm
Reduction factor r_{Al}		0.5
Reduction factor r_{Cu}		0.4
Reduction factor r_{304}		1
Reduction factor r_{St37}		1.1
Output type		4-wire
Nominal ratings		
Operating voltage	U_B	6 ... 60 V DC

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

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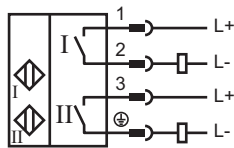
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Technical Data

Switching frequency	f	0 ... 500 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity tolerant
Short-circuit protection		pulsing
Voltage drop	U _d	≤ 5.5 V
Operating current	I _L	4 ... 100 mA
Lowest operating current	I _m	4 mA
Off-state current	I _r	0.5 ... 0.9 mA typ. 0.65 mA
Time delay before availability	t _v	≤ 40 ms
Switching state indicator		LED, yellow
Limit data		
Tightening torque, fastening screws		0.4 Nm
Functional safety related parameters		
MTTF _d		570 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
CCC approval		Certified by China Compulsory Certification (CCC)
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		Connector plug Rd24 x 1/8 , 4-pin
Housing material		PBT
Sensing face		PBT
Degree of protection		IP67
Mass		113 g

Connection



⚠ Connector pin ⊕ is used for sensor connection and must not be connected to earth potential.

Connection Assignment

