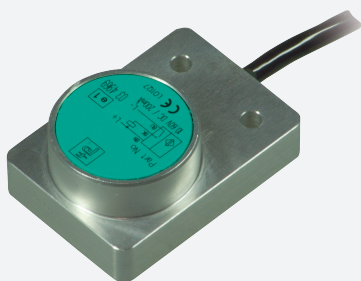


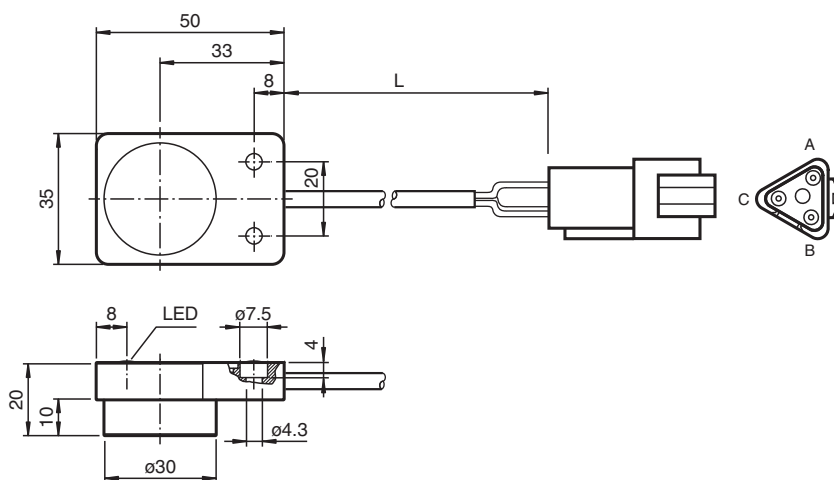
NBB15-F148P10-E2-M-0,15M-3DT04



- 15 mm flush
- 3-wire DC
- Extended temperature range
- E1-Type approval
- Highly shock and vibration resistant



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s _n	15 mm
Installation		flush
Output polarity		DC
Assured operating distance	s _a	0 ... 12.15 mm
Reduction factor r _{AI}		0.5
Reduction factor r _{Cu}		0.45

Release date: 2020-03-24 Date of issue: 2020-03-30 Filename: 321184-0011_eng.pdf

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

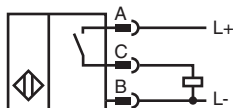
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com



Technical Data

Reduction factor r_{304}		0.8
Reduction factor r_{Brass}		0.55
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	10 ... 60 V DC
Switching frequency	f	0 ... 600 Hz
Hysteresis	H	2 ... 20 % (typ. 3 %)
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 1.5 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	≤ 10 μ A
No-load supply current	I_0	≤ 10 mA
Time delay before availability	t_v	≤ 300 ms
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		1156 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		
E1 Type approval		10R-04
Ambient conditions		
Ambient temperature		-40 ... 85 °C (-40 ... 185 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		PUR cable with Deutsch connector L = 150 mm
Connection assembly		Deutsch housing DT 04-3P-P004 Deutsch wedge W3P Deutsch contact 1060-16-0622
Core cross-section		3 x 0.75 mm ²
Housing material		anodized aluminum
Sensing face		PBT
Degree of protection		IP67 / IP69K
Tightening torque, housing screws		≤ 1.8 Nm

Connection



Wire colors

A	BN
B	BU
C	BK