



CE



Model Number

NBB8-F148P10-E2-M-0,15M-3DT04

Features

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

Technical Data

General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	8 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 6.48 mm
Reduction factor r_{Al}		0.45
Reduction factor r_{Cu}		0.4
Reduction factor r_{304}		0.8
Reduction factor r_{Brass}		0.5
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		1008 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %

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

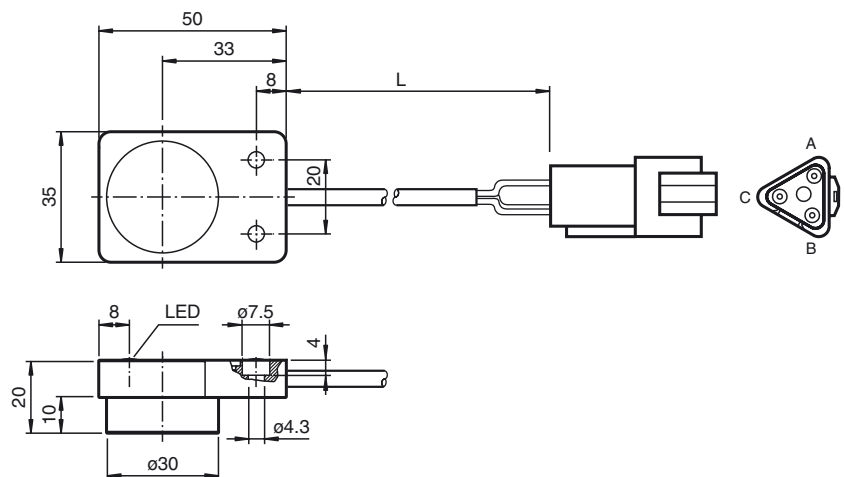
Compliance with standards and directives

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

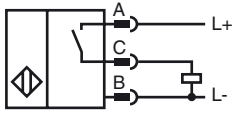
Approvals and certificates

E1 Type approval		10R-04
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Dimensions



Electrical Connection



Wire colors

A		BN
B		BU
C		BK