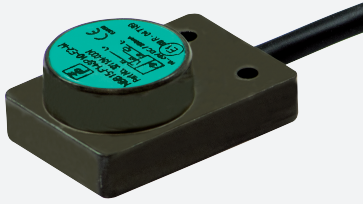


# Inductive sensor

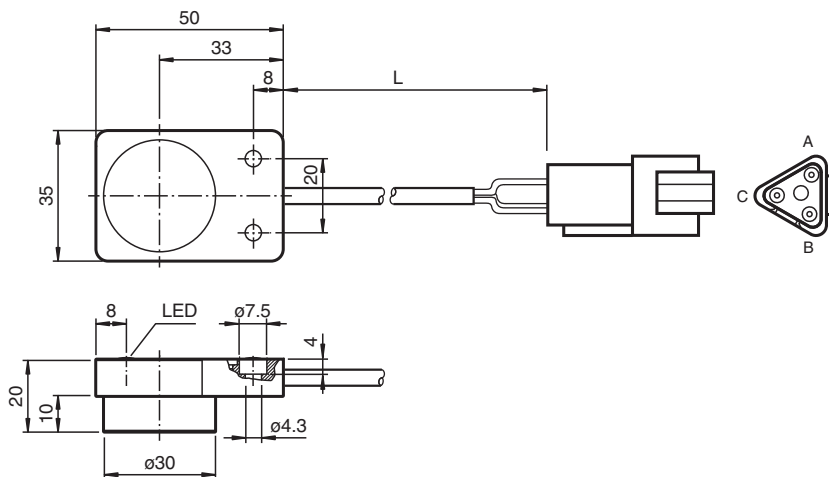
## NBB8-F148P10-E2-M-0,15M-3DT04



- 8 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	$s_n$	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

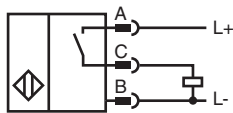
Operating voltage	$U_B$	10 ... 60 V DC
Switching frequency	$f$	0 ... 600 Hz
Hysteresis	$H$	2 ... 20 % (typ. 3 %)

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## Technical Data

Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 1.5 \text{ V}$
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	$\leq 10 \mu\text{A}$
No-load supply current	$I_0$	$\leq 10 \text{ mA}$
Time delay before availability	$t_v$	$\leq 300 \text{ ms}$
Switching state indicator		LED, yellow
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>		1008 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN IEC 60947-5-2
<b>Approvals and certificates</b>		
E1 Type approval		10R-04
<b>Ambient conditions</b>		
Ambient temperature		-40 ... 85 °C (-40 ... 185 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
<b>Mechanical specifications</b>		
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 <sup>2</sup>
Housing material		anodized aluminum
Sensing face		PBT
Degree of protection		IP67 / IP69K
Tightening torque, housing screws		$\leq 1.8 \text{ Nm}$
Dimensions		
Height		20 mm
Width		35 mm
Length		50 mm

## Connection



Wire colors

A	BN
B	BU
C	BK