



### Model Number

**NBB5-F33-E0-Y215523**

Inductive sensor

### Features

- Basic series
- 5 mm flush
- E1-Type approval

## Technical Data

### General specifications

Switching element function		NPN	NO
Rated operating distance	$s_n$	5 mm	
Installation		flush	
Output polarity		DC	
Assured operating distance	$s_a$	0 ... 4.05 mm	
Reduction factor $r_{Al}$		0.3	
Reduction factor $r_{Cu}$		0.2	
Reduction factor $r_{304}$		0.6	

### Nominal ratings

Operating voltage	$U_B$	12 ... 30 V
Switching frequency	$f$	0 ... 500 Hz
Hysteresis	$H$	typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 3$ V
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	0 ... 0.5 mA typ. 0.1 $\mu$ A
No-load supply current	$I_0$	$\leq 15$ mA
Time delay before availability	$t_v$	$\leq 10$ ms

### Ambient conditions

Ambient temperature	-30 ... 85 °C (-22 ... 185 °F)
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### Mechanical specifications

Connection type	710 mm PVC cable crimp contact: 160174-2
Core cross-section	0.34 mm <sup>2</sup>
Housing material	PBT
Sensing face	PBT
Degree of protection	IP67

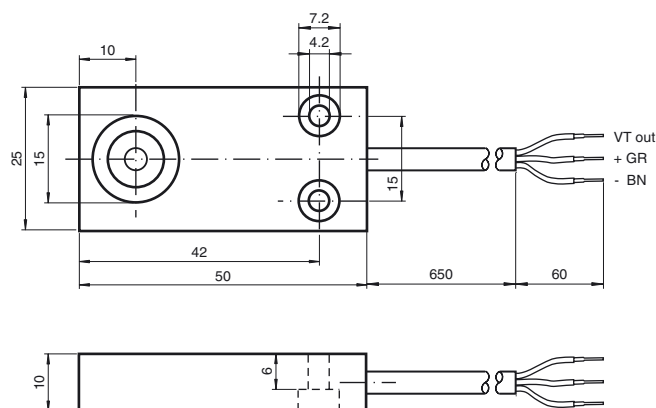
### Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

### Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
E1 Type approval	10R-04

## Dimensions



## Electrical Connection

