



### Model Number

NBB5-F33-E0-Y215523

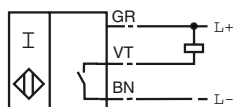
Inductive sensor

### Features

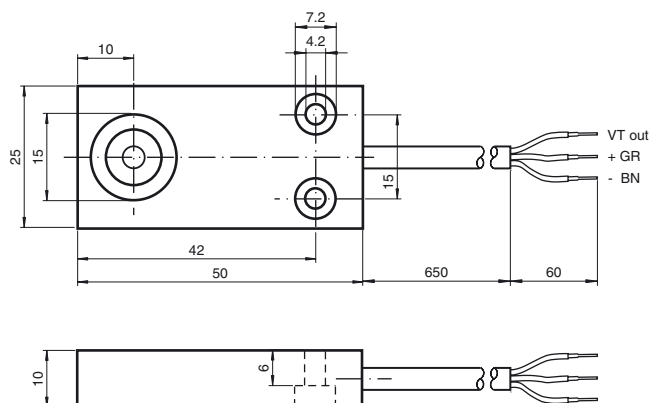
- Basic series
- 5 mm embeddable
- e1-Type approval

### Connection

E / ED



### Dimensions



### Technical Data

#### General specifications

Switching element function		NPN	NO
Rated operating distance	$s_n$	5 mm	
Installation		embeddable	
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 $r_{V2A}$		0.6	

#### Nominal ratings

Operating voltage	$U_B$	12 ... 30 V
Switching frequency	$f$	0 ... 500 Hz
Hysteresis	$H$	typ. 5 %
Reverse polarity protected		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

#### 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
Protection degree	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	2006/28/EG