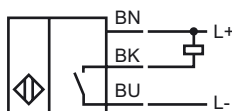
**Model Number****IDT 6-2B-NS-K3**

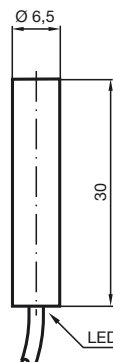
Inductive sensor

Features

- Basic series
- 2 mm embeddable
- increased operating distance

Connection**Safety Note**

The use of this device in applications, where the safety of persons depends from the devices function, is not allowed!

Dimensions**Technical Data****General specifications**

Switching element function	NPN Make function
Rated operating distance	s_n 2 mm
Installation	embeddable
Output polarity	DC
Assured operating distance	s_a 0 ... 1.62 mm
Reduction factor r_{AI}	0.45
Reduction factor r_{Cu}	0.4
Reduction factor r_{V2A}	0.75

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 3000 Hz
Hysteresis	H	typ. 5%
Reverse polarity protection		protected against reverse polarity
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	I_L	0 ... 100 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0	≤ 15 mA
Indication of the switching state		LED, yellow

Standard conformity

Standards	IEC / EN 60947-5-2:2004
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Ambient conditions

Ambient temperature	-25 ... 70 °C (248 ... 343 K)
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Mechanical specifications

Connection type	2 m, PVC cable
Core cross-section	0.14 mm ²
Housing material	brass, nickel-plated
Sensing face	LCP
Protection degree	IP67

Approvals and certificates

UL approval	cULus Listed, General Purpose
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