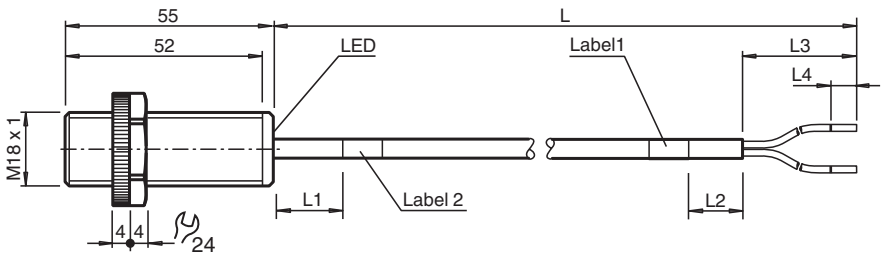
Inductive sensor

NBN8-18GK50-Z1-1,1M-Y



- 8 mm non-flush
- Sturdy plastic housing

Dimensions



Technical Data

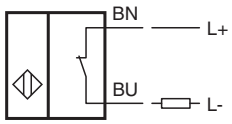
General specifications		
Switching function		Normally closed (NC)
Output type		Two-wire
Rated operating distance	s_n	8 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 6.48 mm
Reduction factor r_{Al}		0.46
Reduction factor r_{Cu}		0.41
Reduction factor r_{304}		0.78
Reduction factor r_{Brass}		0.52
Nominal ratings		
Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 300 Hz
Hysteresis	H	1 ... 10 % typ. 2.5 %
Reverse polarity protection		yes
Short-circuit protection		pulsing
Voltage drop	U_d	3.2 ... 5.2 V typ. 4 V
Operating current	I_L	6 ... 100 mA
Off-state current	I_r	0.8 ... 1.2 mA typ. 1 mA
Switching state indicator		LED, yellow
Compliance with standards and directives		
Standard conformity		

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Technical Data

Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus Listed Load Type: General Purpose Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 30 V DC Output Switching Current: 100 mA
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Ambient temperature		-20 ... 70 °C (-4 ... 158 °F)
Mechanical specifications		
Connection type		cable
Housing material		PBT
Sensing face		PBT
Degree of protection		IP68 / IP69
Cable		
Cable diameter		5.1 mm ± 0.2 mm
Material		PVC
Color		black
Number of cores		2
Core cross section		0.5 mm²
Length	L	L = 1.1 m ± max. 10 mm L1 = 100 mm ± 5 mm L2 = 100 mm ± 5 mm L3 = 150 mm ± 5 mm L4 = 8 mm
Dimensions		
Length		55 mm
Diameter		18 mm

Connection Assignment



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