

# Inductive sensor

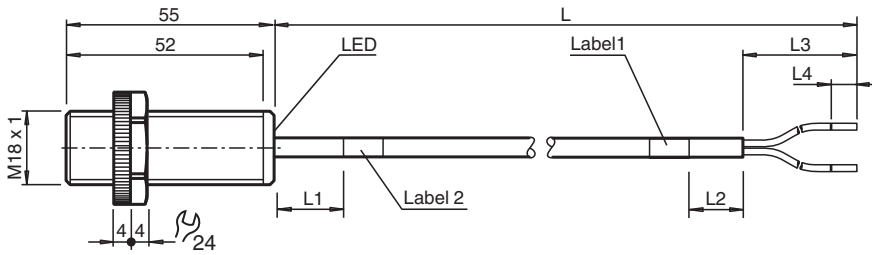
## NBN8-18GK50-Z1-1,1M-Y



- 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

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## Technical Data

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
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN IEC 60947-5-2
<b>Approvals and certificates</b>		
UL approval		cULus Listed, General Purpose, Class 2 Power Source E87056
CCC approval		CCC approval / marking not required for products rated $\leq 36$ V
<b>Ambient conditions</b>		
Ambient temperature		-20 ... 70 °C (-4 ... 158 °F)
<b>Mechanical specifications</b>		
Connection type		cable
Housing material		PBT
Sensing face		PBT
Degree of protection		IP68 / IP69
Cable		
Cable diameter		5.1 mm $\pm$ 0.2 mm
Material		PVC
Color		black
Number of cores		2
Core cross section		0.5 mm <sup>2</sup>
Length	L	L = 1.1 m $\pm$ max. 10 mm L1 = 100 mm $\pm$ 5 mm L2 = 100 mm $\pm$ 5 mm L3 = 150 mm $\pm$ 5 mm L4 = 8 mm
Dimensions		
Length		55 mm
Diameter		18 mm

## Connection

