



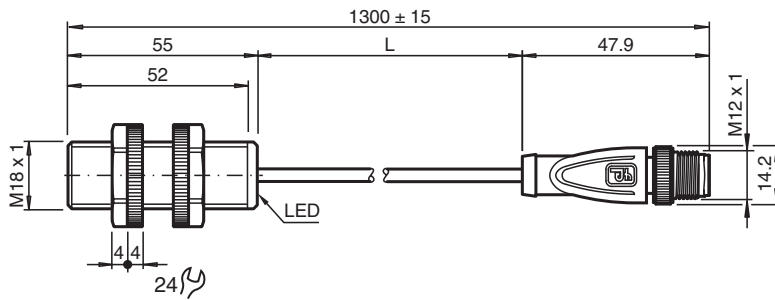
## Inductive sensor

NBN8-18GK50-A2-Y70158255

- 8 mm non-flush
- Antivalent outputs
- Plastic housing



### Dimensions



### Technical Data

General specifications		
Switching function		complementary
Output type		PNP
Rated operating distance	$s_n$	8 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 6.48 mm
Reduction factor $r_{Al}$		0.45
Reduction factor $r_{Cu}$		0.4
Reduction factor $r_{304}$		0.7
Output type		4-wire
Nominal ratings		
Operating voltage	$U_B$	10 ... 30 V
Switching frequency	$f$	0 ... 500 Hz
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	≤ 3 V

Release date: 2024-05-28 Date of issue: 2024-06-07 Filename: 70158255\_eng.pdf

## Technical Data

Operating current	$I_L$	0 ... 200 mA
No-load supply current	$I_0$	$\leq 25$ 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
CCC approval		CCC approval / marking not required for products rated $\leq 36$ V
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
<b>Mechanical specifications</b>		
Connection type		fixed cable with plug
Housing material		PBT
Sensing face		PBT
Degree of protection		IP69K
Connector		
Threading		M12 x 1
Number of pins		4
Cable		
Cable diameter		4.8 mm $\pm$ 0.2 mm
Bending radius		> 10 x cable diameter
Material		PVC
Color		Gray
Number of cores		4
Core cross section		0.34 mm <sup>2</sup>
Length	L	1200 mm
Dimensions		
Length		50 mm
Diameter		18 mm

## Connection

