Inductive sensor

NBN50-U1K-E2

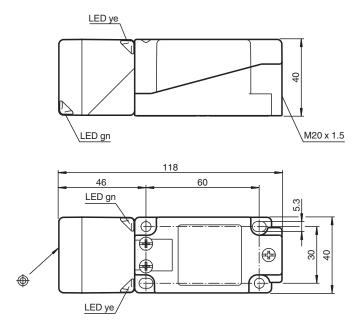
- 50 mm non-flush
- Active Shielding Technology
- 3-wire DC
- Sensor head bidirectional and rotatable
- 4 LEDs indicator for 360° visibility



Function

Inductive sensors with active shielding technology detect in addition to the damping element also the installation environment. As a result, they keep the operating distance constantly high, regardless of the installation situation and the installation material.

Dimensions



Technical Data

	Normally open (NO)
	PNP
Sn	50 mm
	non-flush
	DC
Sa	0 40.5 mm
s_r	45 55 mm typ.
	0.5
	0.49
	Sa

Technical Data		
Reduction factor r ₃₀₄		0.78
Reduction factor r _{Brass}		0.55
Output type		3-wire
Nominal ratings		O WITE
Operating voltage	U_{B}	10 30 V DC
Switching frequency	f	0 40 Hz
Hysteresis	Н	typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U _d	≤2 V
Operating current	I _L	0 200 mA
Off-state current	I _r	0 0.5 mA
No-load supply current	I ₀	≤ 20 mA
Time delay before availability	t _v	80 ms
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
Functional safety related parameters		225, your
MTTF _d		929 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0%
Compliance with standards and directives		0 /0
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		EN 120 00047 0 E
UL approval		cULus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		approvary marking not required for producto rated 250 V
Ambient temperature		-25 70 °C (-13 158 °F)
Storage temperature		-40 85 °C (-40 185 °F)
Mechanical specifications		10 35 6 (10 135 1)
Connection type		screw terminals
Information for connection		A maximum of two conductors with the same core cross section may be mounted on one terminal connection! tightening torque 1.2 Nm + 10 %
Core cross section		up to 2.5 mm ²
Minimum core cross-section		without wire end ferrules 0.5 mm ² , with connector sleeves 0.34 mm ²
Maximum core cross-section		without wire end ferrules 2.5 mm ² , with connector sleeves 1.5 mm ²
Housing material		PA
Sensing face		PA
Housing base		plastic
Degree of protection		IP68 / IP69
Mass		225 g
Dimensions		
Height		40 mm
Width		40 mm
Length		118 mm

