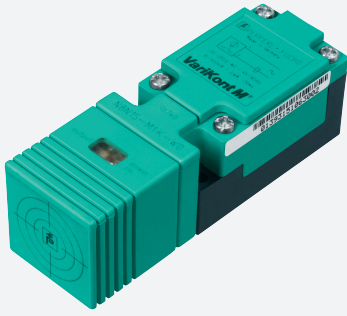


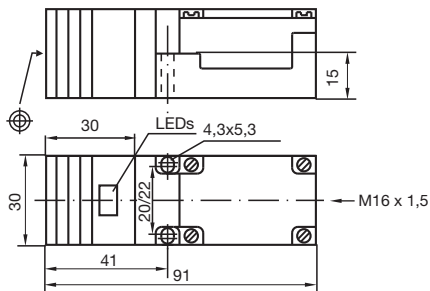
# Inductive sensor NCN15-M1K-E5



- Comfort series
- 15 mm non-flush
- 3-wire DC



## Dimensions



## Technical Data

### General specifications

Switching function		Normally open/closed (NO/NC)
Output type		PNP
Rated operating distance	$s_n$	15 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 12.15 mm
Actual operating distance	$s_r$	13.5 ... 16.5 mm typ. 15 mm
Reduction factor $r_{Al}$		0.38
Reduction factor $r_{Cu}$		0.36
Reduction factor $r_{304}$		0.7
Output type		3-wire

### Nominal ratings

Operating voltage	$U_B$	10 ... 60 V DC
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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## Technical Data

Switching frequency	f	0 ... 500 Hz
Hysteresis	H	1 ... 10 typ. 4 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 3$ V
Voltage drop at $I_L$		
Voltage drop $I_L = 200$ mA, switching element on	$U_d$	1.4 ... 2.6 V typ. 2.3 V
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	0 ... 0.5 mA typ. 0.1 $\mu$ A at 25 °C
No-load supply current	$I_0$	$\leq 14$ mA
Time delay before availability	$t_v$	$\leq 50$ ms
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>		1000 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007
<b>Approvals and certificates</b>		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		Certified by China Compulsory Certification (CCC)
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
<b>Mechanical specifications</b>		
Connection type		screw terminals
Core cross-section		max. 2.5 mm <sup>2</sup>
Housing material		PBT
Sensing face		PBT
Degree of protection		IP67

## Connection

