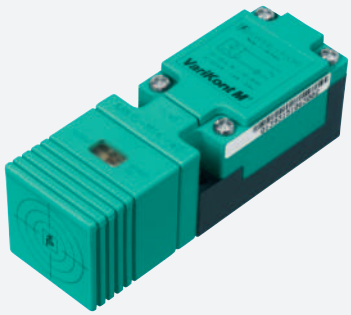
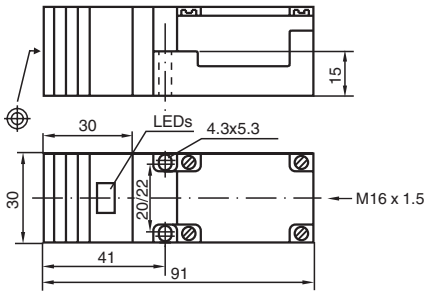


Inductive sensor

NJ15-M1K-A2

- 15 mm non-flush
- 4-wire DC

Dimensions



Technical Data

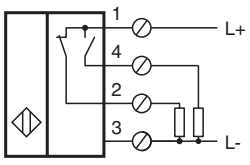
General specifications		
Switching function		complementary
Output type		PNP
Rated operating distance	s_n	15 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 12.15 mm
Reduction factor r_{Al}		0.39
Reduction factor r_{Cu}		0.36
Reduction factor r_{304}		0.73
Output type		4-wire
Nominal ratings		
Operating voltage	U_B	10 ... 60 V DC
Switching frequency	f	0 ... 200 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		yes
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2.5 V
Operating current	I_L	0 ... 200 mA
No-load supply current	I_0	≤ 14.5 mA
Time delay before availability	t_v	≤ 50 ms
Operating voltage indicator		LED, green

Release date: 2026-04-01 Date of issue: 2026-04-01 Filename: 222494_eng.pdf

Technical Data

Switching state indicator		LED, yellow
Safety-relevant product characteristics		
$MTTF_d$		932 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
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: 60 V DC Output Switching Current: 200 mA
CCC approval		Certified by China Compulsory Certification (CCC)
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
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		PBT
Sensing face		PBT
Degree of protection		IP67
Dimensions		
Height		30 mm
Width		30 mm
Length		91 mm

Connection Assignment



Release date: 2026-04-01 Date of issue: 2026-04-01 Filename: 222494_eng.pdf