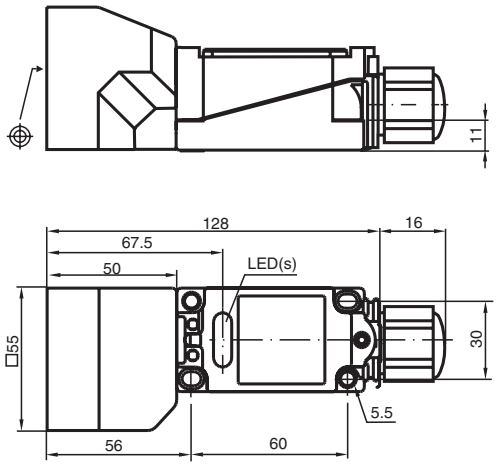


Inductive sensor

NJ40+U10+E2

- With cable gland for cable diameters from 7 to 10.5 mm (extendable with different gasket)

Dimensions



Technical Data

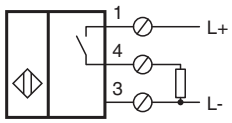
General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	40 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 32.4 mm
Actual operating distance	s_r	36 ... 44 mm typ. 40 mm
Reduction factor r_{Al}		0.5
Reduction factor r_{Cu}		0.45
Reduction factor r_{304}		0.8
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	10 ... 60 V
Switching frequency	f	0 ... 100 Hz
Hysteresis	H	1 ... 10 % typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2.8 V
Voltage drop at I_L		

Release date: 2025-06-06 Date of issue: 2025-06-06 Filename: 087418_eng.pdf

Technical Data

Voltage drop I_L = 1 mA, switching element on	U_d	0.5 ... 2.3 V typ. 0.9 V
Voltage drop I_L = 10 mA, switching element on	U_d	0.8 ... 2.2 V typ. 1.4 V
Voltage drop I_L = 20 mA, switching element on	U_d	0.9 ... 2.3 V typ. 1.5 V
Voltage drop I_L = 50 mA, switching element on	U_d	0.9 ... 2.5 V typ. 1.6 V
Voltage drop I_L = 100 mA, switching element on	U_d	1 ... 2.6 V typ. 1.8 V
Voltage drop I_L = 200 mA, switching element on	U_d	1.2 ... 2.8 V typ. 2 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.01 mA
Off-state current T_U =40 °C, switching element off		≤ 100 µA
No-load supply current	I_0	≤ 10 mA
Time delay before availability	t_v	≤ 100 ms
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CCC approval		Certified by China Compulsory Certification (CCC)
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-25 ... 85 °C (-13 ... 185 °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 mm²
Minimum core cross-section		without wire end ferrules 0.5 mm² , with connector sleeves 0.34 mm²
Maximum core cross-section		without wire end ferrules 2.5 mm² , with connector sleeves 1.5 mm²
Housing material		PBT
Sensing face		PBT
Degree of protection		IP68
Dimensions		
Height		55 mm
Width		55 mm
Length		128 mm

Connection



Release date: 2025-06-06 Date of issue: 2025-06-06 Filename: 087418_eng.pdf