

Inductive sensor

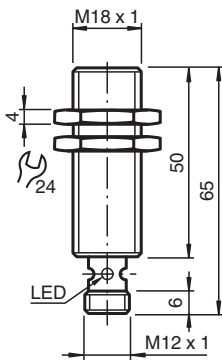
NJ5-18GM50-A2-V1-Y243870



- 5 mm flush
- Set comprising sensor and V1-W female field connector



Dimensions



Technical Data

General specifications

Switching function		complementary
Output type		PNP
Rated operating distance	s_n	5 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 4.05 mm
Reduction factor r_{AI}		0.4
Reduction factor r_{Cu}		0.35
Reduction factor r_{304}		0.7
Output type		4-wire

Nominal ratings

Operating voltage	U_B	10 ... 60 V
Switching frequency	f	0 ... 500 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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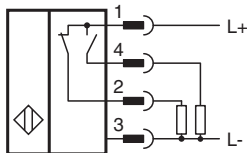
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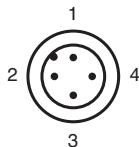
Technical Data

Voltage drop	U _d	≤ 3 V
Operating current	I _L	0 ... 400 mA
Off-state current	I _r	0 ... 0.5 mA
No-load supply current	I ₀	≤ 15 mA
Switching state indicator	LED, yellow	
Functional safety related parameters		
MTTF _d	1000 a	
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)	0 %	
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)	
Mechanical specifications		
Connection type	Connector plug M12 x 1 , 4-pin	
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face	PBT	
Degree of protection		IP67
Dimensions		
Length		50 mm
Diameter	18 mm	

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)