

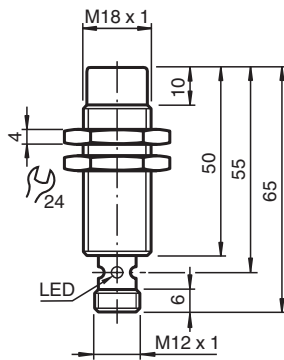
Inductive sensor NJ8-18GM50-A2-V1



■ 8 mm non-flush



Dimensions



Technical Data

General specifications		
Switching function		complementary
Output type		PNP
Rated operating distance	s_n	8 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 6.48 mm
Reduction factor r_{AI}		0.45
Reduction factor r_{Cu}		0.4
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. 8 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

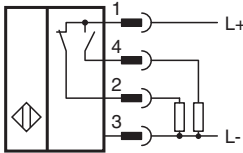
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

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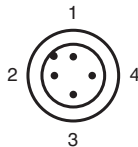
Technical Data

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	Multihole-LED, yellow	
Safety-relevant product characteristics		
MTTF _d		1150 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Interface		
Process data width		
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus Listed Load Type: Resistive Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 60 V DC Output Switching Current: 400 mA
CCC approval	Certified by China Compulsory Certification (CCC)	
Ambient conditions		
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)	
Mechanical specifications		
Connection type	Connector plug	
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face	PBT	
Degree of protection		IP67
Connector		
Threading		M12 x 1
Number of pins	4	
Dimensions		
Length	65 mm	
Diameter	18 mm	

Connection Assignment



Connection Assignment



Connection Assignment

Wire colors in accordance with EN 60947-5-2

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