



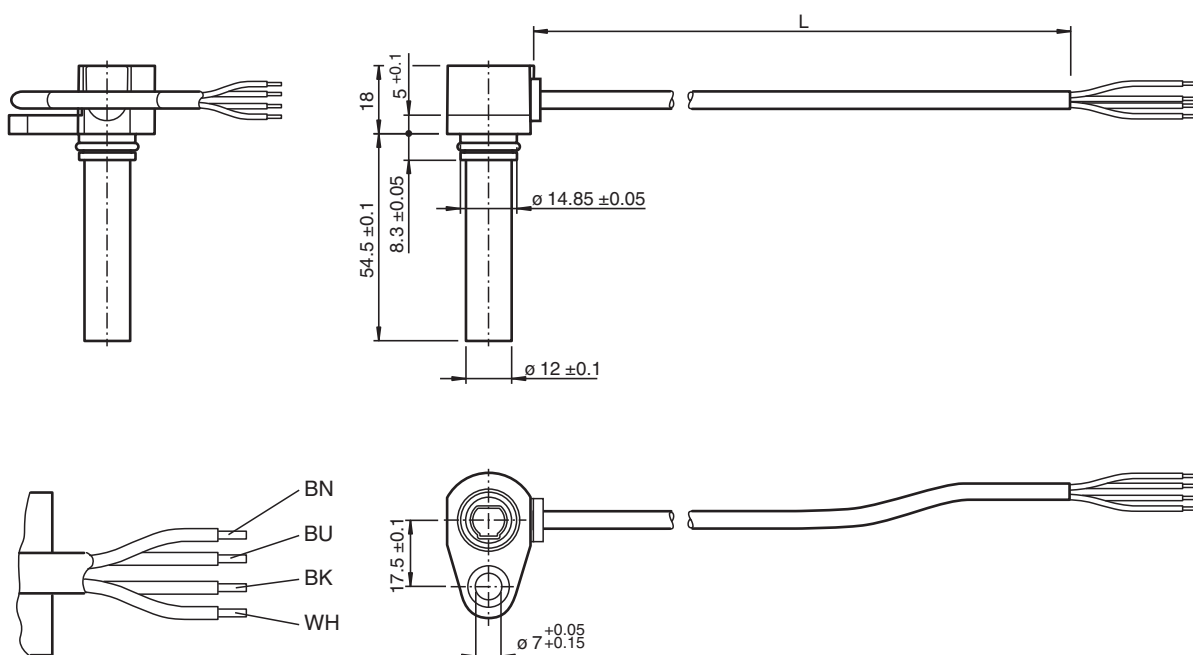
Hall-effect sensor

MHS2-12M55-2EU-0,3M

- Rotational speed-detecting hall effect sensor
- Responds to customer-specific gear
- Switching frequency up to 10 kHz



Dimensions



Technical Data

General specifications

Output type	Digital voltage output	
Assured operating distance	s_a	0.3 ... 2 mm

Nominal ratings

Operating voltage	U_B	4.75 ... 5.25 V
Switching frequency	f	10 kHz
Operating current	I_L	0 ... 25 mA

Safety-relevant product characteristics

MTTF _d	882.2 a	
Mission Time (T _M)	20 a	

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

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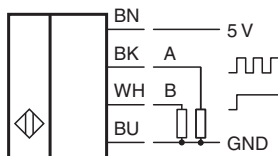
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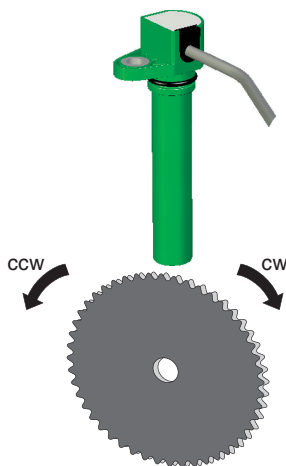
Technical Data

Diagnostic Coverage (DC)		0 %
Output 1		
Designation		A
Output type		Digital voltage output output of the velocity
Output value		The following output values are only achieved with a load resistance of $\geq 500 \Omega$ high level 3.8 ... 4.75 V low level 0.4 ... 2.6 V
Output 2		
Designation		B
Output type		Digital voltage output output of the direction of rotation
Output value		The following output values are only achieved with a load resistance of $\geq 500 \Omega$ direction of rotation cw 3.8 ... 4.75 V direction of rotation ccw 0.4 ... 2.6 V
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cURus Recognized Load Type: General Purpose Circuitry: Class 2 Power Source Supply/Switching Voltage: 5 V DC Further UL information see section "Additional Information"
Ambient conditions		
Ambient temperature		-40 ... 125 °C (-40 ... 257 °F)
Mechanical specifications		
Connection type		cable
Housing material		PBT + GF
Sensing face		PBT + GF
Degree of protection		IP67
Cable		
Cable diameter		4.8 mm $\pm$ 0.15 mm
Bending radius		> 10 x cable diameter
Material		PUR
Color		black
Number of cores		4
Core cross section		0.5 mm ²
Length	L	300 mm
Tightening torque, fastening screws		≤ 10 Nm
Tightening torque, housing screws		10 Nm
General information		
Supplementary information		Specifications relating to disk 61_01-105_04_72-03 ST12 ferromagnetic steel

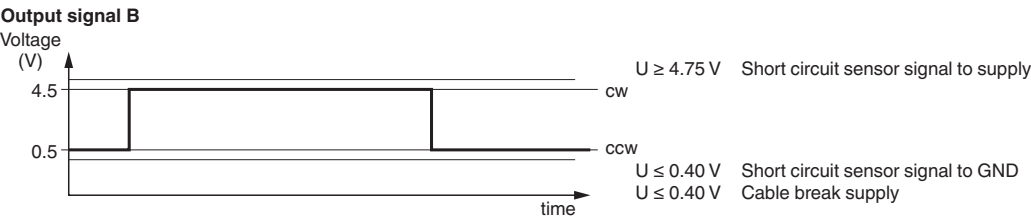
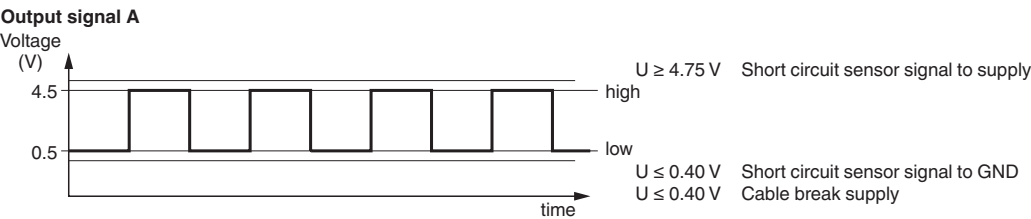
Connection Assignment



Installation Conditions



Operation



Additional Information

Additional UL Information
Conditions of Acceptability:
Strain relief test shall be determined in the end-use application.
Suitability of the mounting means shall be determined in the end use application. The suitability of connection between supply connection and the end connector shall be determined in the end-use application.
The supply connections for these devices are intended for factory wiring only.
These devices shall be used within their recognized electrical ratings.
These proximity switches are intended to be powered by Listed Class 2 power supply or are located in a limited voltage / limited current circuit.

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