



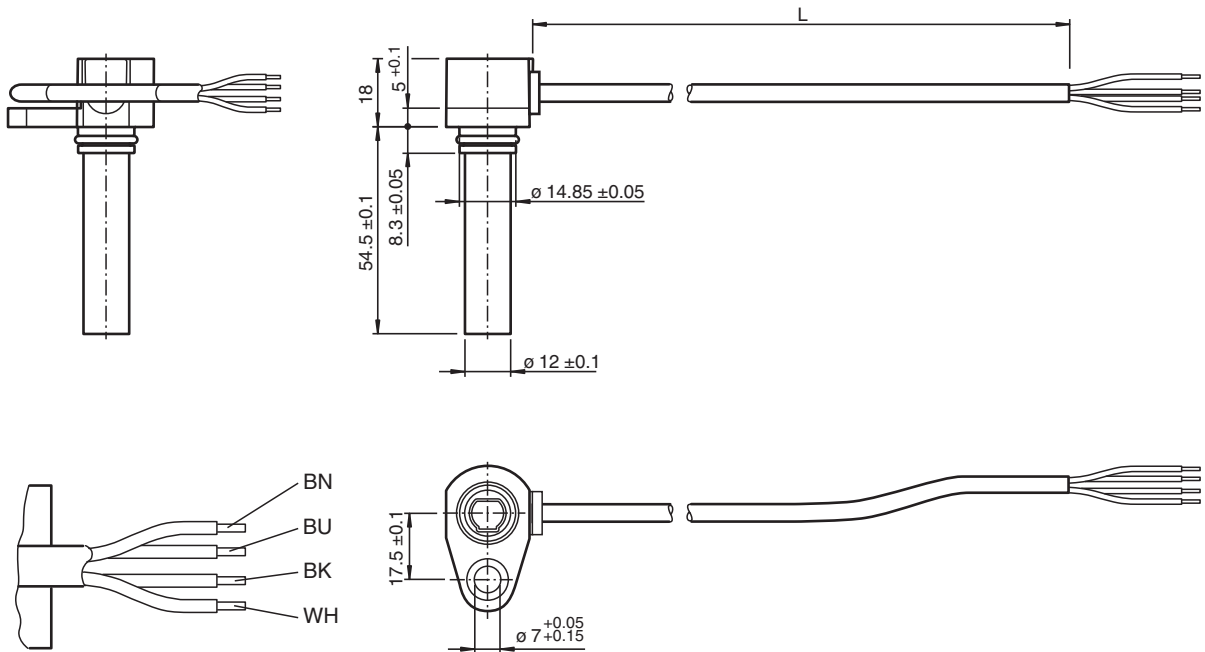
Hall effect sensor

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
Functional safety related parameters		
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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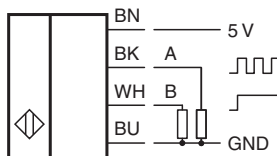
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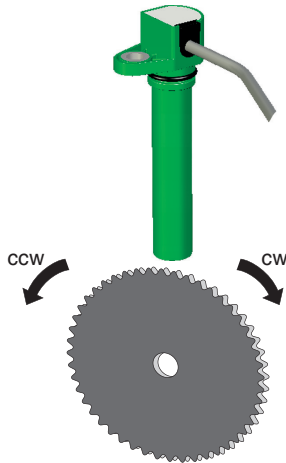
Technical Data

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 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012 ISO 16750-4:2010 ISO 11452-2:2019 ISO 11452-4:2020 ISO 16750-2:2012 ISO 7637-3:2016
Approvals and certificates		
UL approval		UL Recognized
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, housing screws		10 Nm
General information		
Supplementary information		Specifications relating to disk 61_01-105_04_72-03 ST12 ferromagnetic steel

Connection

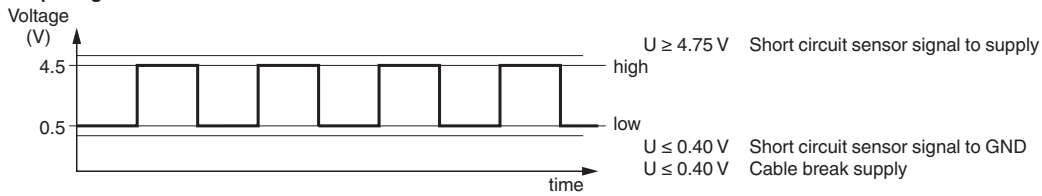


Installation Conditions

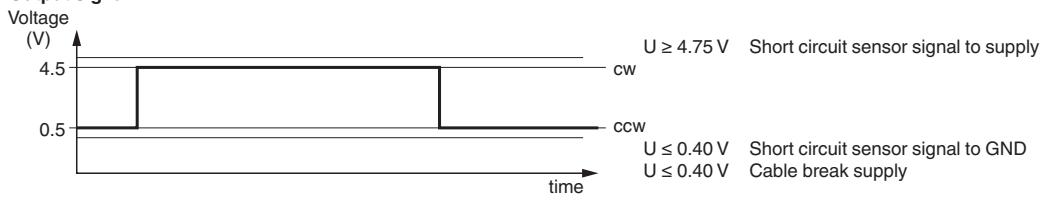


Operation

Output signal A



Output signal B



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