



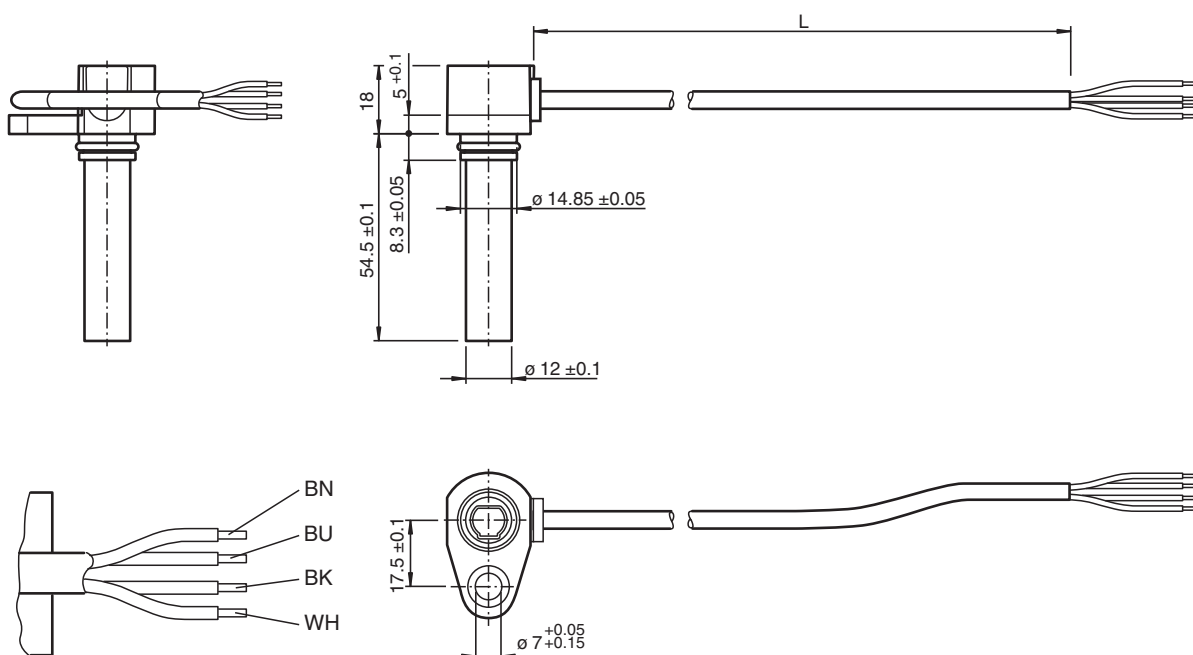
Hall effect sensor

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

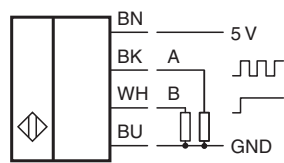
Functional safety related parameters

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

Technical Data

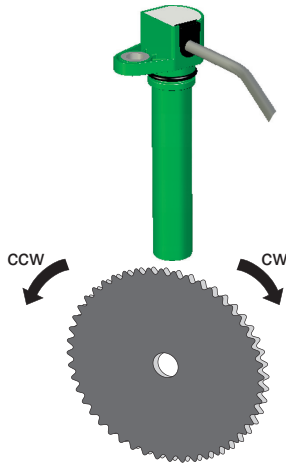
Diagnostic Coverage (DC)		0 %
Output 1		
Designation		A
Output type		Digital voltage output output of the velocity
Output value		The following output values are only achieved with a load resistance of $\geq 500 \Omega$ high level 3.8 ... 4.75 V low level 0.4 ... 2.6 V
Output 2		
Designation		B
Output 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		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



Release date: 2024-05-28 Date of issue: 2024-06-01 Filename: 294349_eng.pdf

Installation Conditions



Operation

