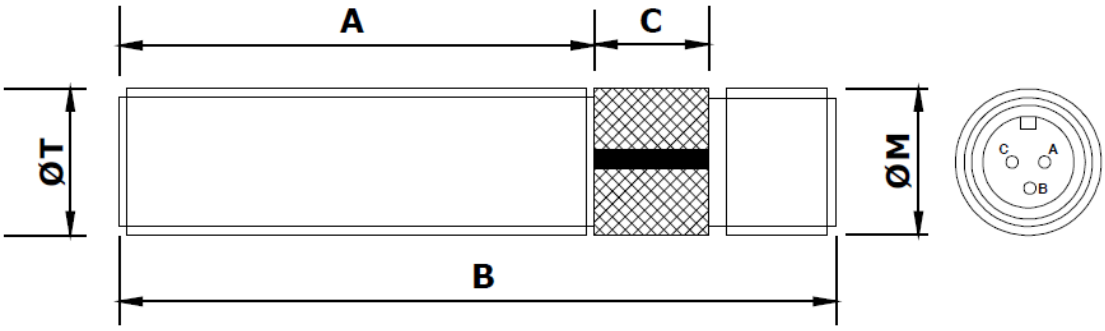
Gear Tooth GMR Sensor
Internal Bias Magnet
For Detection of Ferrous Targets
Pulse to Supply

GMR Sensor
MR3652V



Mechanical specification

dimensions in mm unless otherwise stated

Dimension		*Part Number*
A	52	
B	80	
C	12 medium diamond knurl with alignment groove	
ØM	5/8" x 24 tpi UNEF-2A (connector thread)	
ØT	5/8" x 18 tpi UNF-2A (body thread)	**MR3652V-I**
or	M16 x 1.5 6g	**MR3652V-M**
Main body material	Stainless Steel	
End face	PA 6/66	
Locknut	1 off supplied as standard	

Electrical specification

Supply Voltage (V_S)	5V DC — 30V DC
Protection	Reverse polarity, overvoltage and momentary transient surge, short circuit (output to ground)
Supply Current	2.5mA + output current
High Output Voltage (O/C)	V_S - 0.1V typical, V_S - 0.2V min.
Low Output Voltage (O/C)	0.2V typical, 0.65V max.
High Output Voltage (Iout =10mA/20mA)	V_S - 0.6V min. / V_S - 1.0V min.
Low Output Voltage (Iout =10mA/20mA)	0.8V max. / 1.0V max.
Output Current Limit (sink or source)	60mA
Operating Temperature Range	-40°C to +120°C
Operating Frequency Range	1Hz* – 10kHz
Operating Air Gap (AG)	0 – 3.0mm*^
Alignment	The groove should be approximately aligned with the direction of rotation of the target as it passes the face of the sensor.
Termination	MS screw 10SL-3P (3-pin integral plug)
Mating Connector	MS screw 10SL-3S (3-pin line socket, not supplied)
Connections	Pin A = V_S Pin B = 0V Pin C = Output

*Note: Dependent on target
^Recommended installation procedure: Fit sensor to approximately 1.5mm sensing gap. Adjust position of alignment groove by winding sensor in or out, until approximately aligned with direction of rotation. Check stable signal obtained at minimum rotational speed. Otherwise, reduce sensing gap (while maintaining alignment) by winding sensor 1/2 turn closer to target and re-test.

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