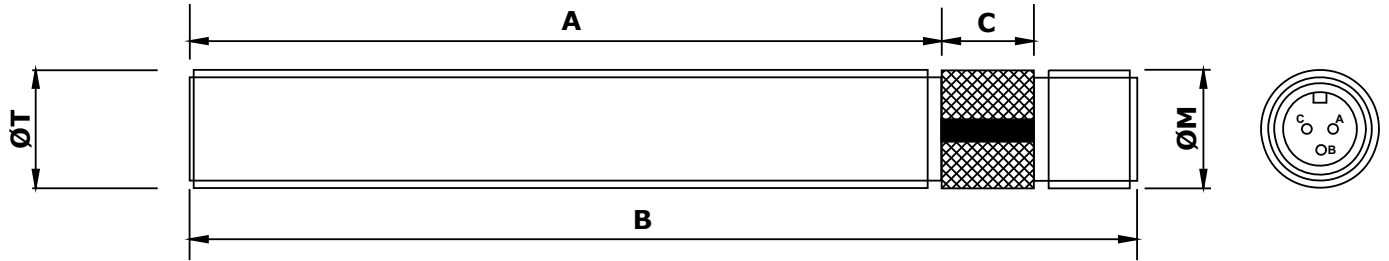


Zero Velocity  
Gear Tooth Sensor  
Internal Bias Magnet  
For Detection of Ferrous Targets

# HES36102N

## Hall Effect Sensor



### Mechanical specification

dimensions in mm unless otherwise stated

<i>Dimension</i>		<i>Part Number</i>
<b>A</b>	102	
<b>B</b>	104	
<b>C</b>	12 medium diamond knurl with alignment groove	
<b>ØT</b>	5/8" x 18 tpi UNF-2A (body thread)	<b>HES36102N-I</b>
<b>or</b>	M16 x 1.5 6g	<b>HES36102N-M</b>
<b>Main body material</b>	Stainless Steel	
<b>End face</b>	Epoxy sealed sensing face	
<b>Locknut</b>	1 off supplied as standard	

## Electrical specification

<b>Supply Voltage (<math>V_S</math>)</b>	5V DC — 30V DC
<b>Protection</b>	Reverse polarity, overvoltage and momentary transient surge, short circuit (output to ground, output to supply)
<b>Supply Current (output low)</b>	17mA max
<b>Supply Current (output high)</b>	5mA min
<b>High Output Voltage (O/C)</b>	5.2V typical, 4.8V min
<b>Low Output Voltage (O/C)</b>	0.2V typical, 0.65V max
<b>High Output Voltage (<math>I_{out} = 10/20mA</math>)</b>	4.5V min / 4.0V min
<b>Low Output Voltage (<math>I_{out} = 10/20mA</math>)</b>	0.8V max / 1.0V max
<b>Output Current (Sink or Source)</b>	80mA
<b>Operating Temperature Range</b>	-40°C to +125°C
<b>Operating Frequency Range</b>	0–8000 Hz
<b>Operating Air Gap (AG)</b>	0–3.0mm
<b>Output Polarity</b>	The groove must be aligned with the direction of rotation of the tooth as it passes the face of the sensor. The polarity may be reversed by rotating the sensor through 180°.
<b>Termination</b>	MS screw 10SL3P (3-pin integral plug)
<b>Mating Connector</b>	MS screw 10SL3S (3-pin line socket, not supplied)
<b>Connections</b>	Pin A = $V_S$ Pin B = 0V Pin C = Output

MADE IN THE UK

*Reliability, Guaranteed*



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