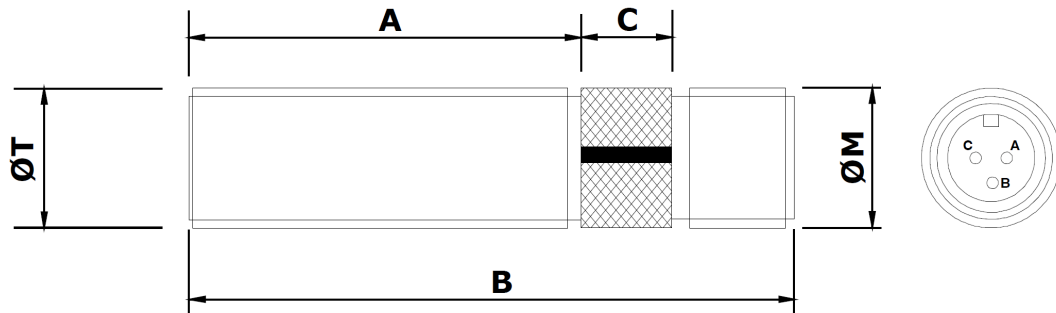


Zero Velocity
 Gear Tooth Sensor
 Internal Bias Magnet
 For Detection of Ferrous Targets

HES3645NSV Hall Effect Sensor



Mechanical specification

dimensions in mm unless otherwise stated

<i>Dimension</i>		<i>Part Number</i>
A	45	
B	70	
C	10 medium diamond knurl with alignment groove	
ØT	5/8" x 18 tpi UNF-2A (body thread)	HES3645NSV-I
<i>or</i>	M16 x 1.5 6g	HES3645NSV-M
Main body material	Stainless Steel	
End face	Stainless steel solid sealed end (suitable for permanent liquid immersion)	
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, output to supply)

Supply Current (output low) 17mA max

Supply Current (output high) 5mA min

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 ($I_{out} = 10 / 20mA$) $V_S - 0.6V$ min / $V_S - 1.0V$ min

Low Output Voltage ($I_{out} = 10 / 20mA$) 0.8V max / 1.0V max

Output Current Limit (Sink or Source) 80mA max

Operating Temperature Range $-40^{\circ}C$ to $+120^{\circ}C$

Operating Frequency Range 0 – 8000Hz

Operating Air Gap (AG) 0 – 3.0mm

Output Polarity 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° .

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

MADE IN THE UK

Reliability, Guaranteed



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