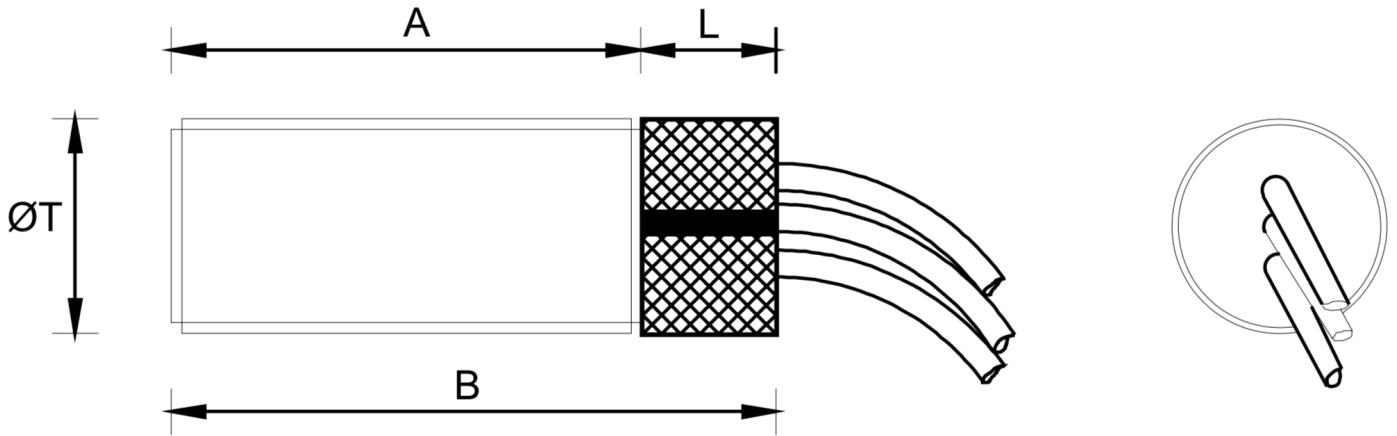


Zero Velocity
Internal Bias Magnet
For Detection of Ferrous Targets

HES0635KNS Hall Effect Sensor



Mechanical specification

dimensions in mm unless otherwise stated

<i>Dimension</i>		<i>Part Number</i>
A	35	
B	45	
L	10 medium diamond knurl with alignment groove	
ØT	5/8" x 18 tpi UNF-2A (body thread)	HES0635KNS-I
or	M16 x 1.5 6g	HES0635KNS-M
Main body material	Stainless Steel	
End face	Stainless steel – sealed solid end suitable for permanent liquid immersion	
Locknut	2 off supplied as standard with shake-proof washer	

Electrical specification

Power supply	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)	5.2V typical, 4.8V min
Low Output Voltage (O/C)	0.2V typical, 0.65V max
High Output Voltage ($I_{out} = 10/20mA$)	4.5V min / 4.0V min
Low Output Voltage ($I_{out} = 10/20mA$)	0.8V max / 1.0V max
Output Current (Sink or Source)	80mA max
Operating Temperature Range	-40°C to +125°C
Operating Frequency	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	FlexLite flying leads x 100mm long, sleeved and fitted with 3-way Deutsch DT04-3P-CE02
Connections	Pin A = V_s Pin B = 0V Pin C = Output

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Reliability, Guaranteed



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