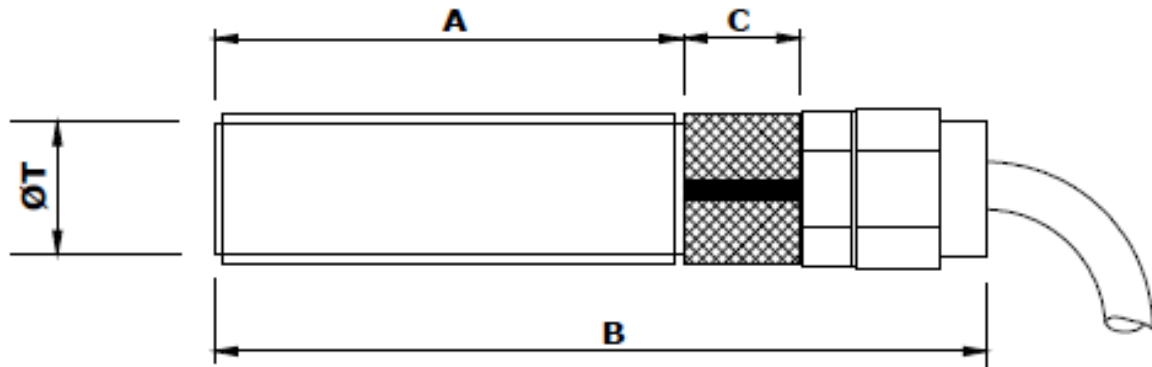


Zero Velocity
 Submersible Gear Tooth Sensor
 Internal Bias Magnet
 For Detection of Ferrous Targets

HES1650NSVX

Hall Effect Sensor



Mechanical specification

dimensions in mm unless otherwise stated

<i>Dimension</i>		<i>Part Number</i>
A	50	
B	82 nominal	
C	10 medium diamond knurl with alignment groove	
ØT	5/8" x 18tpi UNF-2A	HES1650NSVX-I
or	M16 x 1.5 6g (body thread)	HES1650NSVX-M
Main body material	Stainless Steel	
End face	Stainless steel solid sealed end	
Sealing	IP68 - suitable for permanent submersion in water to a depth of 1m	
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 (Sink or Source)	80mA max
Operating Temperature Range	-10°C to +80°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	IP68 cable gland exit with captive screened PUR cable, covered with IP68 heat shrink sleeving (OD 6mm nominal). Length 2m as standard, alternative lengths (nm) given by "En" in part code, e.g HES1650NSVXE5 for 5m of cable.
Connections	Brown = 5V DC to 30V DC Supply Green = 0V White = Output

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