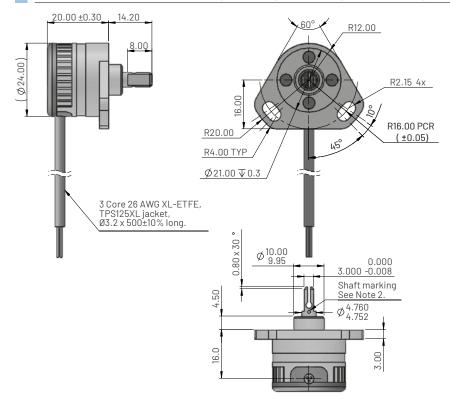
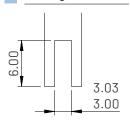


# Dimensions for MHR5310 - Triangular flange mounting with a sprung shaft



#### Driving side detail



#### Ordering code

# MHR5310 XV-XXX

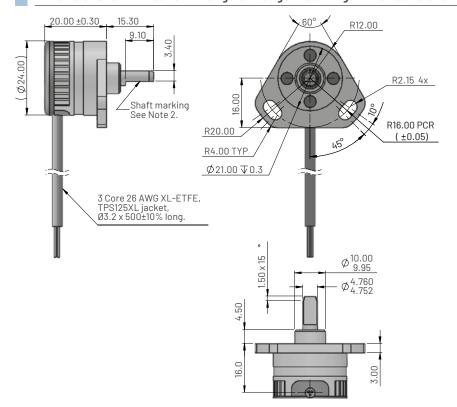
Output direction (viewed on shaft)

C = Clockwise

A = Anticlockwise

Electrical angle in degrees -

### Dimensions for MHR5320 - Triangular flange mounting with a round shaft



#### Ordering code

# MHR5320 XV-XXX

Output direction (viewed on shaft)

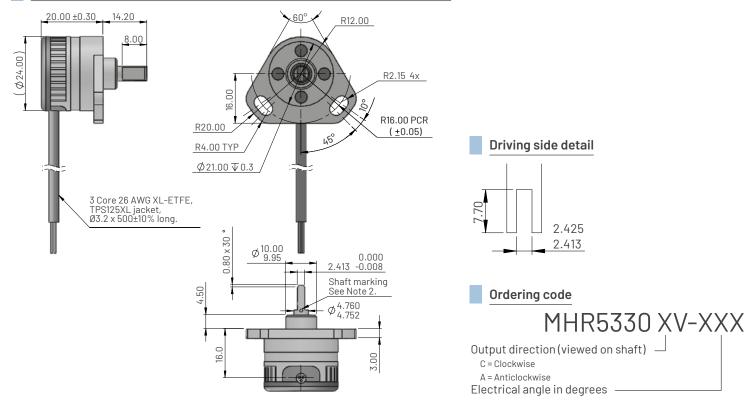
C = Clockwise

A = Anticlockwise

Electrical angle in degrees -



# Dimensions for MHR5330 - Triangular flange mounting with a blade shaft



# Electrical and mechanical specification for MHR5300 Series

Supply voltage (Vs)	5.0±10% regulated	8 to 30 unregulated	VDC
Over voltage protection	Up to 50		VDC
Supply current	<15		mA
Reverse polarity protection	Up to -10		VDC
Power on settlement time	<100		ms
Input voltage rise time	0.25 minimum		V/ms
Output specification '			'
Output type	Analogue voltage		
Output direction	Clockwise or anticlockwise (specified at time of order)		
Voltage output (Vout)	0-Vs(+5)	0 - 5.0	VDC
Monotonic range	Ratiometric with Vs	<0.01% FS	
	Linear Range (see	e note 5)	
_oad resistance	>10K		Ohms
Output noise	<5		mV RMS
Performance specification			
Measurement range	20 to 360±2 in 1° increments		0
Resolution	0.025		% of measurement range
Non-linearity (Note 4)	<±0.25		%FS
Temperature coefficient (Vout)	<±0.003	<±0.011	%FS/°C
Jpdate rate	500 Nom		Hz
Max operating speed	600		RPM
General specification			
Weight (approx.)	30		grams
Protection/sealing	Electronic housing IP68 and IP69K		
_ife (shaft in bush bearing)	>500 million cycles		dependant on environment
Dither life	Contactless - no degradation due to shaft dither		
Operational temperature	-40 to +150	See de-rating graph	°C
Storage temperature	-55 to +150		°C
Materials	Case: Glass filled polymer, To Shaft: Stainless s		

### MHR5300 Series

Magnetic Hall rotary position sensor



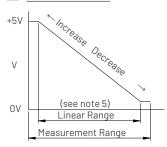
#### Notes

- 1. Incorrect wiring may cause internal damage.
- 2. When shaft marking is facing cable exit, instrument is mid-travel (2.5V output).
- 3. Do not operate between 5.5V and 8V.
- 4. Non-linearity is calculated from least squares best fit method over the Linear Range.
- 5. Linear Range = Measurement range x 0.995 Nom.
- 6. Due to hall effect technology used in this device, ferrous materials and magnetic fields close to the sensor may influence output.
- 7. General dimension tolerance is ±0.25.

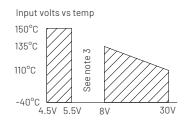
#### Electrical connections (see note 1)

Wire Colour	Function
Red	Supply Voltage (Vs)
White	Output Voltage (Vout)
Black	Ground

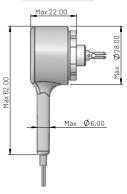
# Typical output



# Input voltage de-rating graph



#### Accessories



Boot dimensions when fitted (Boot supplied seperately)

# Shrink boot

Ordering code: JN025-002

Material	
EVA adhesive lined fluoroelastomer lipped boot	

Active Sensors Ltd, Unit 12, Wilverley Road, Christchurdch, Dorset, BH23 3RU, UK

#### Contact (North America)

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