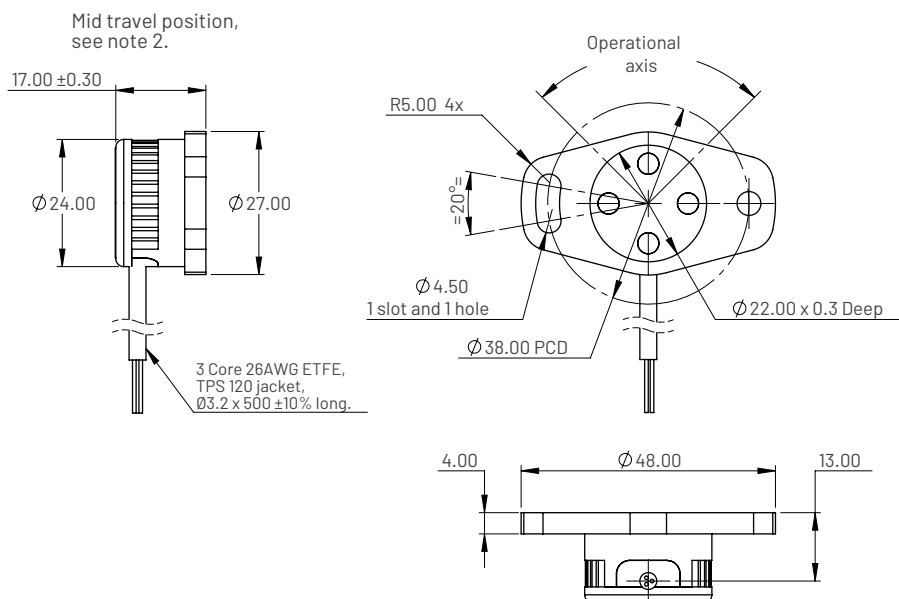


## Dimensions



## Electrical and mechanical specification

Parameters	Values	Units
<b>Input specification</b>		
Supply voltage (Vs)	6 to +30 unregulated	VDC
Over voltage protection	Up to 60	VDC
Supply current	<20	mA
Reverse polarity protection	Up to -60	VDC
Power on settlement time	<500	ms
<b>Output specification</b>		
Output type	Analogue voltage	
Voltage output (Vout)	10 - 90% Vs	0.5 - 4.5 VDC
Line regulation	<0.01	%FS
Load resistance	>10K	Ohms
Output noise	<2	mV RMS
<b>Performance specification</b>		
Measurement range	20° (±10°) 40° (±20°) 60° (±30°) 120° (±60°) 180° (±90°)	%FS
Resolution	0.031	%measurement
Sensitivity (see note 3)	Ideal span (4000mV) / Measurement range (°)	mV/°
Sensitivity tolerance	<±1.5	%
Non-linearity (see note 3)	<±0.5	%FS
Temperature coefficient (Vout)	<±0.011 TBD	%FS/°C
Bandwidth (-3db)	1.5	Hz
Cross axis sensitivity	4%	Max
<b>General specification</b>		
Weight (approx.)	20.0	grams
Protection/sealing	IP68 and IP69K	
Operational temperature	See de-rating graph	°C
Storage temperature	-40 to +105	°C
Shock	1 metre on to concrete (Max 20,000g)	
Materials	Housing: GF Polymer	
Max torque screw setting (M4 with washer)	1.8	Nm

## Ordering code

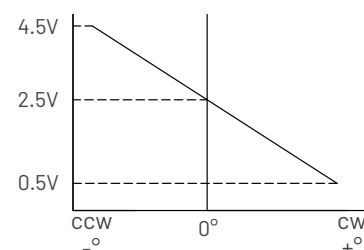
**MHT5100-AV-XXX**

Voltage output  
Total tilt angle in degrees

## Electrical connections (see note 1)

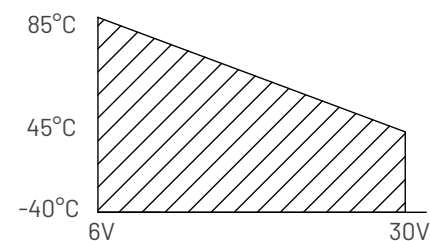
Wire Colour	Function
Red	Supply Voltage (Vs)
White	Output Voltage (Vout)
Black	Ground

## Typical output when viewed on top with slot on right



## Input voltage de-rating graph

Input volts vs temperature



## Notes

1. Incorrect wiring may cause internal damage.
2. When cable exit facing down as shown, instrument is mid travel.
3. Sensitivity and non-linearity is calculated from least squares best fit method.
4. General dimension tolerance is ±0.25mm.