

55200 Absolute Position Rotational Sensor



Features:

- 360° Angular sensing range
- Absolute rotary position sensing
- Analog output
- Non-contact measuring
- Precision brass mounting inserts
- EMC protection

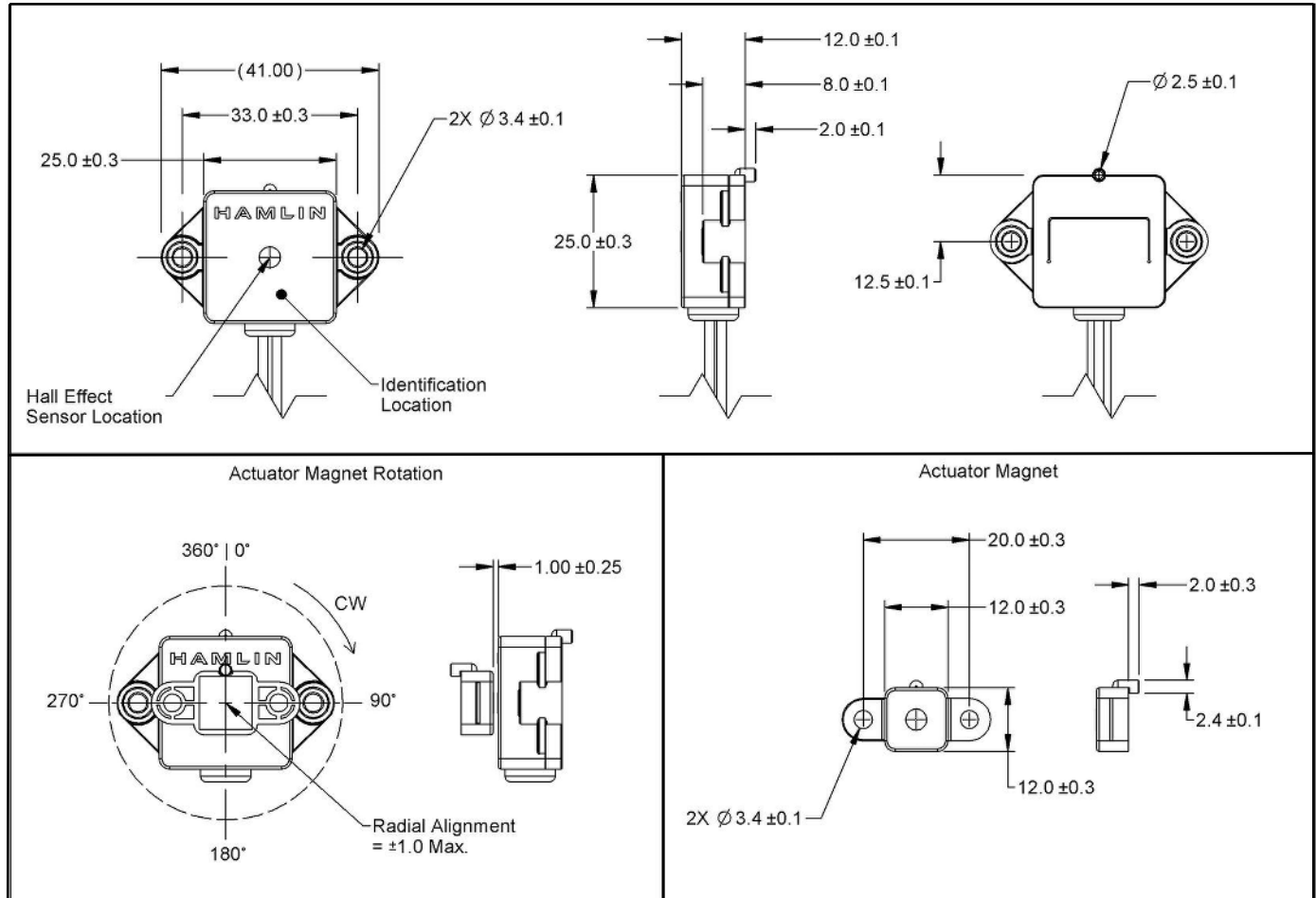
Benefits:

- Long life - no wear components
- High speed
- Unaffected by harsh environments
- Compact robust package

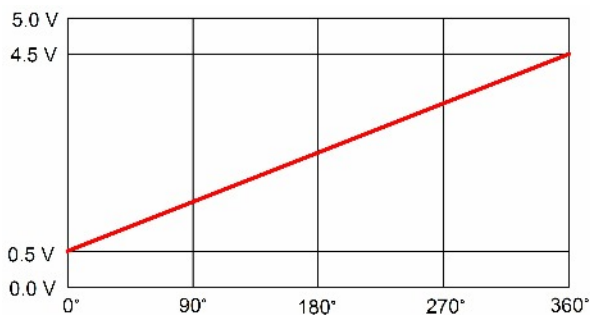
Applications:

- Absolute rotary encoding
- Pedal position
- Shaft position
- Lever position
- Float level sensing
- Non-contact potentiometer

DIMENSIONS mm



OUTPUT SIGNAL



CUSTOMIZATION OPTIONS

Customized versions available. Contact Hamlin for details.

- Angular sensing range
- Output type: Analog, DWM, or SPI
- Connectors and terminals
- Wire type and length
- Magnetic actuators

55200 Absolute Position Rotational Sensor

SPECIFICATIONS

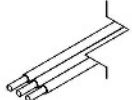
Hall Effect Device			Rotational, Analog Output
Operating Voltage	Recommended	Vdc	4.5 to 5.5
Over Voltage	Absolute Max (Note 1)	Vdc	20
Reverse Voltage	Absolute Max (Note 1)	Vdc	-10
Supply Current		mA-Max	16
Output Current		mA-Max	-8 to +8
Programmed Output Voltage Range		Vdc	0.5 to 4.5
Programmed Sensing Range		°	360
Resolution		°	0.11
Accuracy (Note 2)		°	±4
Response Time		ms-Max	4
Start-up Time		ms-Max	15
Temperature	Operating	°C	-40 to +90
	Storage	°C	-65 to +105
Actuator Positional Tolerances	Air Gap (Note 3)	mm	1.00 ±0.25
	Radial Alignment (Note 3)	mm	±1.0
Wire	Size	AWG	20
	Insulation	SAE	J-1128, Type TXL
	Length	mm	300

Note 1 - This is a stress rating only, functional operation is not implied.

Note 2 - When used in conjunction with the supplied 57200-000 actuator under typical conditions. Accuracy is affected by the sensor and actuator alignment, air gap and the presence of external magnetic fields or materials. Consult Hamlin for details.

Note 3 - When used in conjunction with the supplied 57200-000 actuator.

ORDERING INFORMATION

Termination Options																											
Select Option	Description			Select Option	Description																						
A	Stripped Leads		<table><tr><th>Color</th><th>Function</th></tr><tr><td>Black</td><td>Ground</td></tr><tr><td>White</td><td>Signal</td></tr><tr><td>Red</td><td>V(in)</td></tr></table>	Color	Function	Black	Ground	White	Signal	Red	V(in)	C	Molex Connector MX 150 33481-0301		<table><tr><th>Pin</th><th>Color</th><th>Function</th></tr><tr><td>1</td><td>Black</td><td>Ground</td></tr><tr><td>2</td><td>White</td><td>Signal</td></tr><tr><td>3</td><td>Red</td><td>V(in)</td></tr></table>	Pin	Color	Function	1	Black	Ground	2	White	Signal	3	Red	V(in)
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