

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

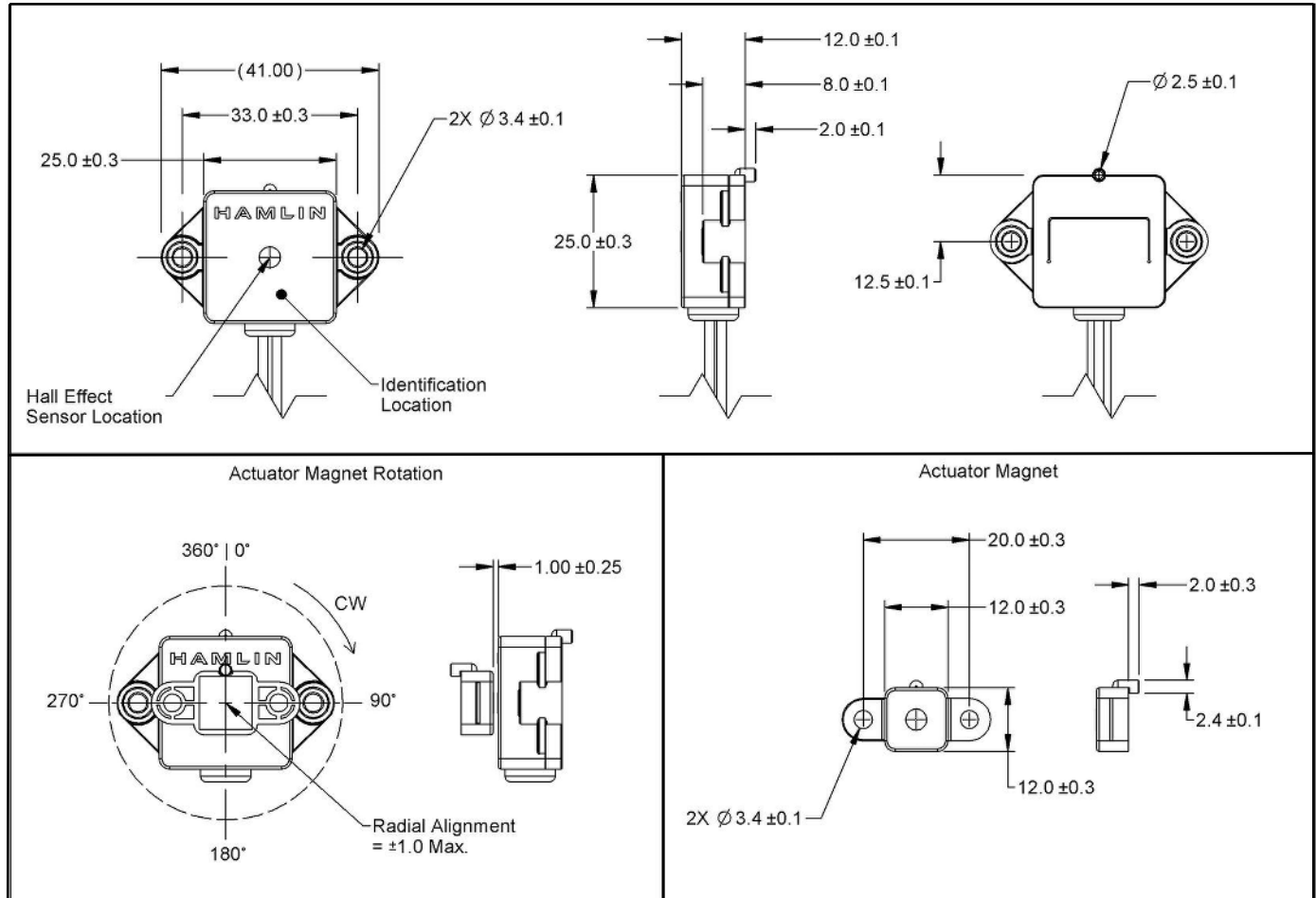
Benefits:

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

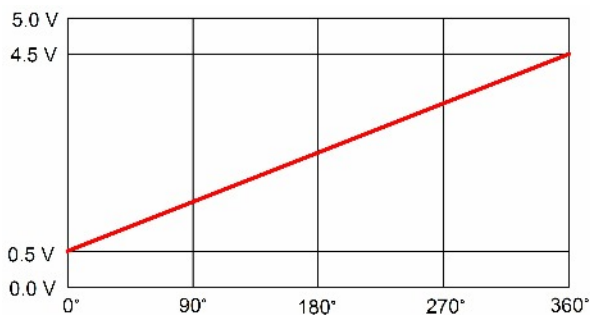
Applications:

- 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

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SPECIFICATIONS

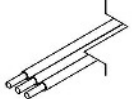
Hall Effect Device			Rotational, Analog Output
Operating Voltage	Recommended	Vdc	4.5 to 5.5
Over Voltage	Absolute Max (Note 1)	Vdc	20
Reverse Voltage	Absolute Max (Note 1)	Vdc	-10
Supply Current		mA-Max	16
Output Current		mA-Max	-8 to +8
Programmed Output Voltage Range		Vdc	0.5 to 4.5
Programmed Sensing 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		Color Function Black Ground White Signal Red V(in)	C	Molex Connector MX 150 33481-0301
					 Pin Color Function 1 Black Ground 2 White Signal 3 Red V(in)

