HAMLIN

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VDD

Rpu

Output



55085 Mini Vane Hall Effect Sensor Features and Benefits

Benefits

- High switching speed up to 10kHz
- · Long life; up to 20 billion operations
- Unaffected by harsh environments •
- Operates in static or dynamic magnetic • field
- Small package size
- Simple installation and adjustment
- **Applications**
- · Position and limit sensing
- Shaft rotation sensing
- Security systems
- Linear actuators
- Angle sensing

Comparator

Т

Magnetic encoders

DIMENSIONS (in) mm

Vibration 50g max. @ 50-2,000Hz
Shock 150g max. @ 11ms ^{1/2} Sine EMC to DIN 40839 (Consult Hamlin) Reverse/Over Voltage Protection

3 pin leadout integral to sensor

Features

housing

passes through slot

• Built in temperature compensation

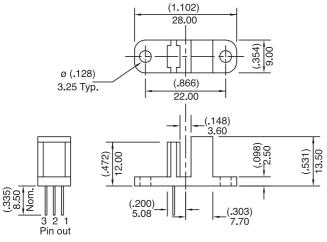
· Sensor and magnet contained in a single

Sensor operates when ferrous vane

BLOCK DIAGRAM

Hall

Plate



CUSTOMER OPTIONS - SPECIFICATION

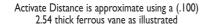
GND Pin 2	 L			I Y I OUT Pin 3		
Notes						
I) Add	 Add capacitor Cn as 					

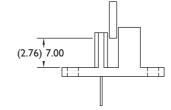
Switch

- shown, close to the
- sensor, for transient
- suppression if required
- 2) Add resistor Rpu as shown for sinking output

Hall Type			Digital Switch	
			3 Wire (Voltage Output)	
Supply Voltage (Note 1)	Absolute Ratings	Vdc	-15 to +28	
	Recommended	Vdc	+3.8 to +24	
	Overvoltage Protection	Vdc-max	32	
Output High Voltage		Vdc	sinking output	
Output Low Voltage		Vdc-max	0.4 @ 20mA	
Output Current (continuously on)		mA-max	20	
Switching Speed		kHz-max	10	
Temperature	Operating	°C	-40 to +100	
	Storage	°C	-65 to +105	

CUSTOMER OPTIONS - ACTIVATION (in) mm





ORDERING INFORMATION



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VDD Pin 1

Cn∔