HAMLIN

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DIMENSIONS (in) mm

55075 Geartooth Hall Effect Sensor Features and Benefits

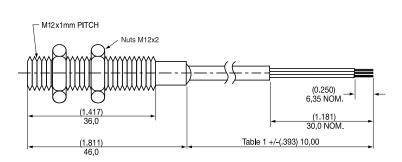
Features

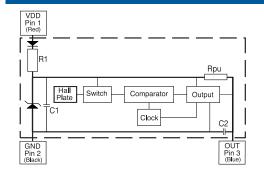
- Rotary position geartooth sensor
- Stainless steel MI2 threaded barrel · Electronic protection against severe and
 - automotive environments
- Self adjusting magnetic range
- 3 wire (voltage output)
- EMC protection (consult Hamlin)
- Short circuit/reverse voltage protection
- Zero speed detection

Benefits

- · Long life; up to 20 billion operations
- High speed operation
- No chopper delay
- Unaffected by harsh environments
- · Rotary orientation not critical
- On-chip 10 bit A/D converter
- · Customer selection of cable length and
- connector type

BLOCK DIAGRAM

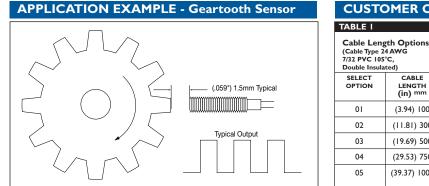




SPECIFICATIONS

Hall Type			Digital Switch 3 Wire (Voltage Output)	
Supply Voltage (Note I)	Maximum	Vdc	-25 to +25.2	
	Operation	Vdc	4.75 to 25.2	
	Overvoltage Protection	Vdc-max	27	
Output High Voltage		Vdc-min	VDD - 2 (sinking outputs with internal pull-up resistor)	
Output Low Voltage		Vdc-max	0.6 @ 20mA	
Output Current (continuously on)		mA-max	20	
Current Consumption		mA-min	1	
		mA-max	10.5	
Switching Speed		kHz-max	15	
Temperature	Operating	°C	-40 to +85	
	Storage	°C	-65 to +85	

Note I - As long as Tj (Junction Temperature) is not exceeded



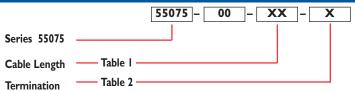
CUSTOMER OPTIONS - Cable Length and Termination

TABLE 2

CABLE

s:-	Termination Options:-				
5	SELECT OPTION	DESCRIPTION			
1	А	Tinned leads			
0	В	Crimped terminals			
00	с	6.35mm fastons			
00	D	AMP MTE 2.54mm pitch			
50					
00	E	JST XHP 2.5mm pitch			

ORDERING INFORMATION



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Applications

- Geartooth sensor
- Camshaft sensor
- Linear encoder
- Rotary encoder