55075 Geartooth Hall Effect Sensor Features and Benefits



Features

- Rotary position geartooth sensor
 Stainless steel M12 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

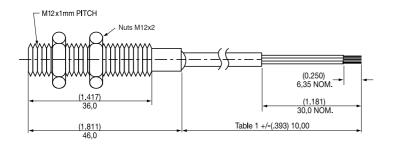
Benefits

- · 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

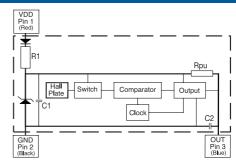
Applications

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

DIMENSIONS (in) mm



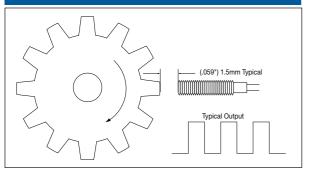
BLOCK DIAGRAM



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	I
		mA-max	10.5
Switching Speed		kHz-max	15
Temperature	Operating	°C	-40 to +85
	Storage	°C	-65 to +85

APPLICATION EXAMPLE - Geartooth Sensor

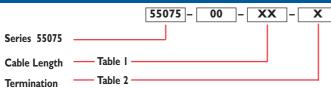


CUSTOMER OPTIONS - Cable Length and Termination

TABLE I				
Cable Length Options:- (Cable Type 24 AWG 7/32 PVC 105°C, Double Insulated)				
SELECT	CABLE LENGTH (in) ^{mm}			
01	(3.94) 100			
02	(11.81) 300			
03	(19.69) 500			
04	(29.53) 750			
05	(39.37) 1000			

TABLE 2						
Terminatio	Termination Options:-					
SELECT OPTION	DESCRIPTION					
Α	Tinned leads					
С	6.35mm fastons					
D	AMP MTE 2.54mm pitch					
E	JST XHP 2.5mm pitch					

ORDERING INFORMATION



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