

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

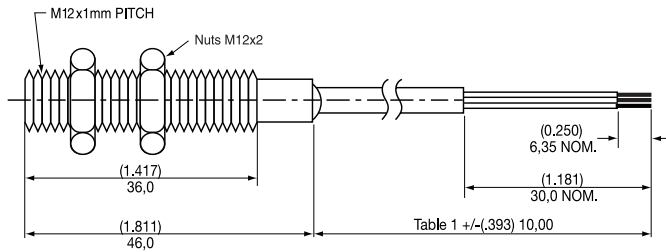
Benefits

- 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

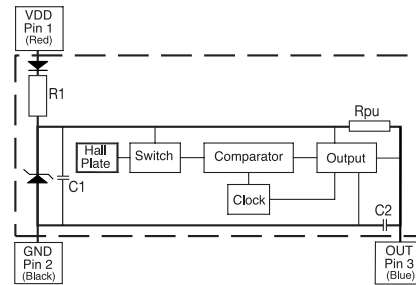
Applications

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

DIMENSIONS (in) mm



BLOCK DIAGRAM

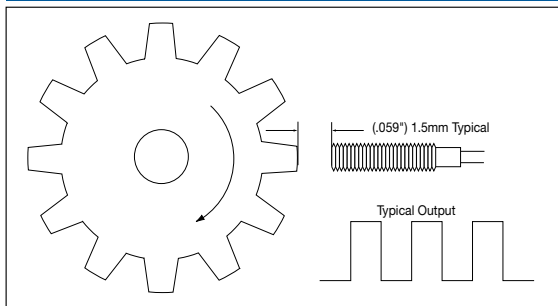


SPECIFICATIONS

Hall Type			Digital Switch 3 Wire (Voltage Output)
Supply Voltage (Note 1)	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
		mA-min	I
Current Consumption		mA-max	10.5
		kHz-max	15
Switching Speed			
Temperature	Operating	°C	-40 to +85
	Storage	°C	-65 to +85

Note 1 - As long as Tj (junction Temperature) is not exceeded

APPLICATION EXAMPLE - Geartooth Sensor

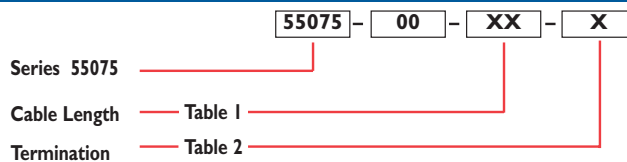


CUSTOMER OPTIONS - Cable Length and Termination

SELECT OPTION	CABLE LENGTH (in) mm
01	(3.94) 100
02	(11.81) 300
03	(19.69) 500
04	(29.53) 750
05	(39.37) 1000

SELECT OPTION	DESCRIPTION
A	Tinned leads
C	6.35mm fastons
D	AMP MTE 2.54mm pitch
E	JST XHP 2.5mm pitch

ORDERING INFORMATION



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Issue No: AF Date: 05.02.09 DCR B6092

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