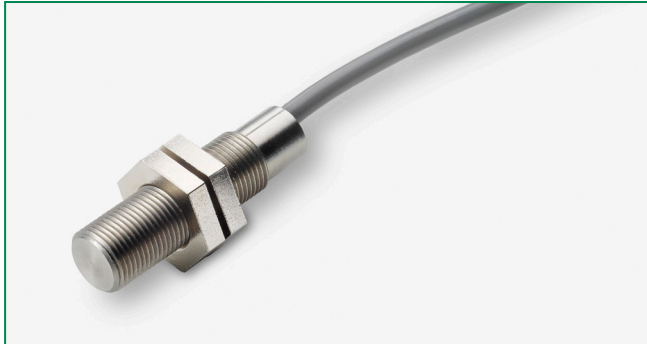


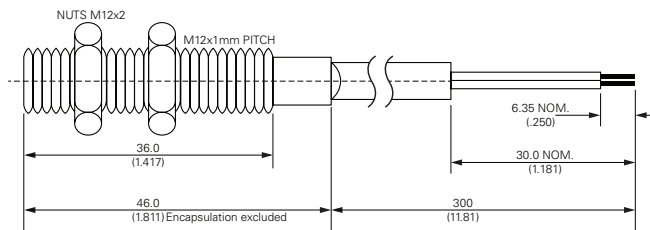
55075 Stainless Steel M12 Geartooth Speed Sensor

RoHS

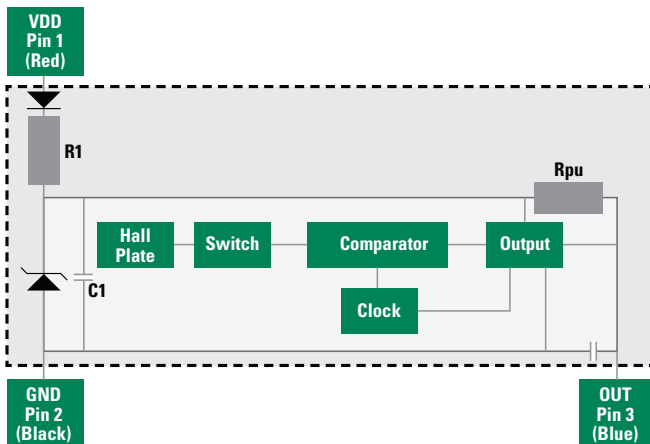


Dimensions

Dimensions in mm (inch)



Block Diagram



Description

The 55075 is a robust stainless steel hall effect barrel sensor with an M12 x 1mm pitch thread, 46mm (1.810") long primarily for geartooth speed sensing. It protects against severe and automotive environments and is capable of switching up to 27Vdc and 20mA. It is available as three-wire (voltage output) version with a range of sensitivity, cable length and connector options. It is ideally suited to wheel, transmission and cam shaft speed sensing, geartooth sensor, rotary encoders, industrial, commercial, and automotive applications.

Features

- Ferrous target geartooth speed sensor
- Stainless steel M12 threaded barrel
- Electronic protection against severe and automotive environments
- Self adjusting magnetic range
- Three-wire (voltage output)
- EMC Protection (Consult Littelfuse)
- Short circuit/reverse voltage protection

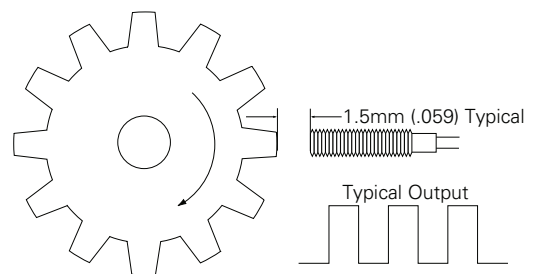
Benefits

- 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

APPLICATION EXAMPLE - Geartooth Sensor



55075 Stainless Steel M12 Geartooth Speed Sensor

Electrical Ratings



Hall Type			Digital Switch 3-Wire (Voltage Output)
Supply Voltage ¹	Maximum Operation Overvoltage Protection	V _{dc} V _{dc} V _{dc} - max.	-25 to +25.2 4.75 to 25.2 27
Output High Voltage		V _{dc} - min.	VDD - 2 (sinking output with internal pull-up resistor)
Output Low Voltage		V _{dc} - max.	0.6 @20mA
Output Current (continuously on)		mA - max.	20
Current Consumption		mA - min. mA - max.	1 10.5
Switching Speed		KHz-max.	15
Temperature	Operating	°C	-40 to +85

Note: 1. As long as T_j (Junction Temperature) is not exceeded.

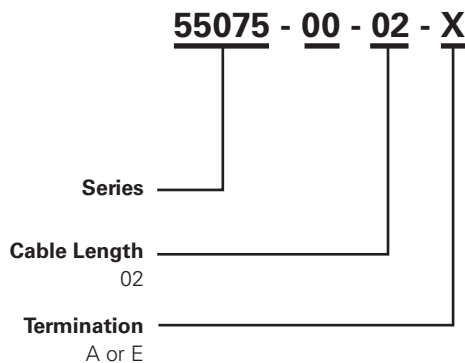
Cable Length Options

Cable Type: 24 AWG 7/32 PVC 105°C Double Insulated	
Select Option	Cable Length mm (inch)
02	300 (11.81)

Termination Options

Select Option	Description	
A	Tinned Leads	
E	JST XHP 2.5mm pitch	

Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
Bulk	Bulk	500	N/A	N/A

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Littelfuse:

[55075-00-02-A](#) [55075 AP 02 A](#) [55075-AP-02-A](#) [55075-00-05-D](#) [55075-00-05-A](#) [55075-00-04-E](#) [55075-00-05-C](#)
[55075-00-02-C](#) [55075-00-04-A](#) [55075-00-04-D](#) [55075-00-02-D](#) [55075-00-02-E](#) [55075-00-03-E](#) [55075-00-01-E](#)
[55075-00-03-D](#) [55075-00-05-E](#) [55075-00-04-C](#) [55075-00-03-C](#) [55075-00-01-C](#) [55075-00-01-D](#) [55075-00-01-A](#)
[55075-00-03-A](#)