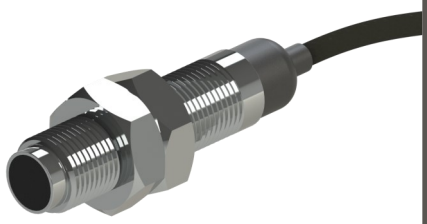
SP Series
Wheel Speed Sensor



Sensors For Motorsport

The SP Series wheel speed sensors have been designed as simple compact sensors suited to the demanding motorsport and on-vehicle automotive testing applications.

The main construction is stainless steel with a maximum operating temperature of 300°F, which provides for a rugged sensor even in exposed areas such as the engine bay or wheel hub.

By using a proven 'Hall Effect' sensing technology, the SP detects a change in magnetic field as the target passes the sensors tip. The output transistor switches its state as the target passes, so giving a measurable pulse train which can be used within standard data logging equipment or ECU's.

Features

- Miniature Size
- M12 or 7/16 Mounting
- NPN Output
- IP67 Sealing
- 300°F Operation

Technical Specifications

Measurement Frequency	8KHz
Sensor Type	Hall Effect
Mounting	M12 x 1.25 or 7/16-20UNF-2A Thread, 2x Lock Nuts
Sensing Range (Air Gap)	0.08" to 0.11"
Target Size (Width x Length)	0.31" x 0.04" (Minimum)
Output	NPN. Internal Pullup Resistor Value 10KΩ
Max Load Current	25mA Max
Power Supply	5V-24Vdc (10mA)
Operating Temperature Range	-40°F to 300°F (-40°C to +150°C)
Construction	303 Grade Stainless Steel
Electrical Connection	20" 22AWG 55spec Cable + DR25 Sleeve
Thread Dimensions	Please See Mechanical Drawings - page 2
Protection Class	IP67
EMC Protection	EN 560947-5-2
Weight (Excluding Cable)	0.88oz
Options	Cable Specifications and Labelling

Applications

- Drive Shaft Speed
- Traction Control
- Launch Control
- Wheel Speed

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Represented by:

PMC/KA Sensors adopts a continuous development program which sometimes necessitates specification changes without notice

Part Number Configurator

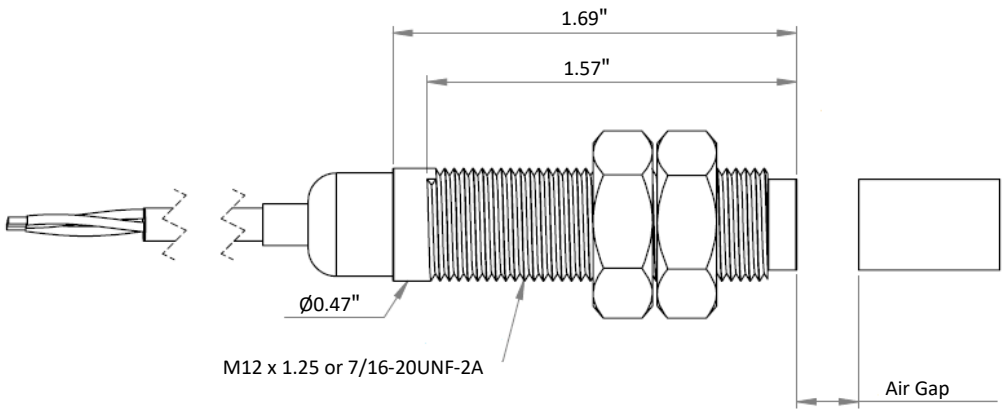
SP [ ] - [ ] - [ ] - [ ] - [ ]

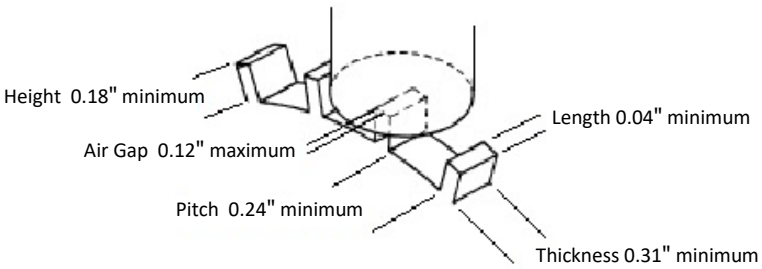
Thread Size	7/16-20 UNF-2A Male	71
	M12 x 1.25 Male	12
Output	NPN. Internal Pullup Resistor Value 10KΩ	NPN
Thread Length	1.57 inch (40mm) Long	40
Cable Length	20 inches 22AWG 55spec Cable + DR25 Sleeve	A20
Special Code	None	000

The KA configuration tool is used to specify a standard KA Sensor, other options are available.

Mechanical Details

Dimensions in inches





Electrical Details

+Ve Supply	0V Supply	Signal
Red	Black	White

Sense
Analyze
Control

Sensors For:

- Temperature
- Acceleration
- Pressure
- Position
- Torque
- Speed
- Angle
- Force

Services For:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact Us

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