

## **SP SERIES** WHEEL SPEED SENSOR



Sense Analyse Control

#### **Features**

- Miniature Size
- M12 or 7/16 Mounting
- **NPN Output**
- 5-24V Supply
- **High Temperature**

The SP Series of Wheel Speed Sensors have been designed as simple compact sensors suited to the demanding motorsport and automotive testing industries.

The main construction is stainless steel with a maximum operating temperature of 150°C, which provides for a robust 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 asses 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.

### **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)	1 to 3mm
Target Size (Width x Length)	8mm Wide x 1mm Long (Minimum)
Output	NPN. Internal Pullup Resistor Value $1$ K $\Omega$
Max Load Current	25mA Max
Supply	5-24Vdc (10mA)
Operating Temperature Range	-40°C to +150°C
Construction	303 Grade Stainless Steel
Electrical Connection	100cm, 26 AWG 55 Spec wire + DR25 Sleeve
Thread Dimensions	Please See Mechanical Drawings
<b>Protection Class</b>	IP67
EMC Protection	EN 560947-5-2
Weight (Excluding Cable)	25g

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

### **Applications**

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

#### Contact us

bf1systems.com sales@kasensors.com

> SP12 10.22 KA039S-DS (rev1)

### **PART NUMBER CONFIGURATOR**

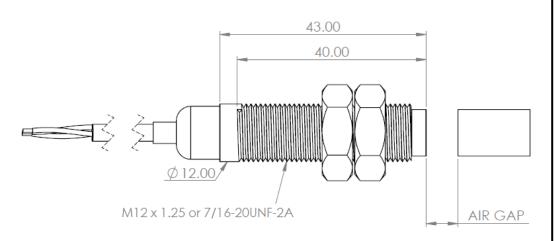
7/16-20 UNF-2A Male 71 12 None 000

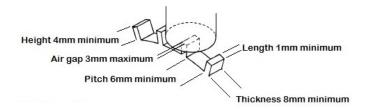
Sense
Analyse
Control

Thread Size

**Special Code** 

# **MECHANICAL DETAILS**





# **CONNECTION DETAILS**

+Ve Supply	0V Supply	Signal
Red	Black	White

#### Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

#### Contact us

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### Contact us

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