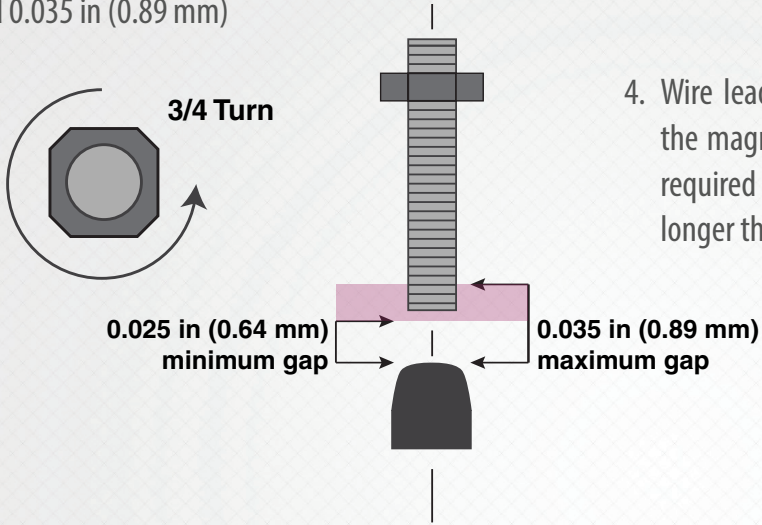
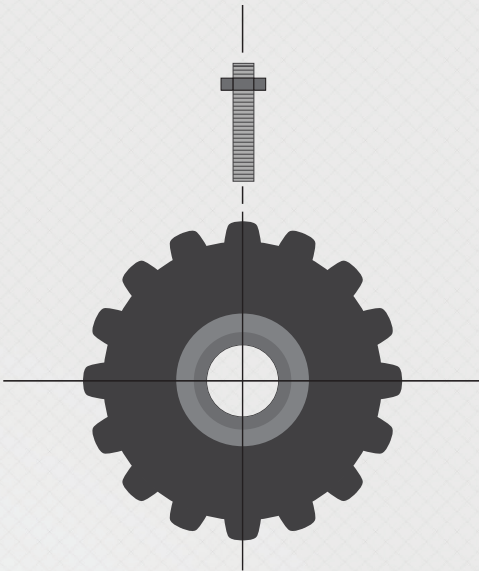


INSTALLATION

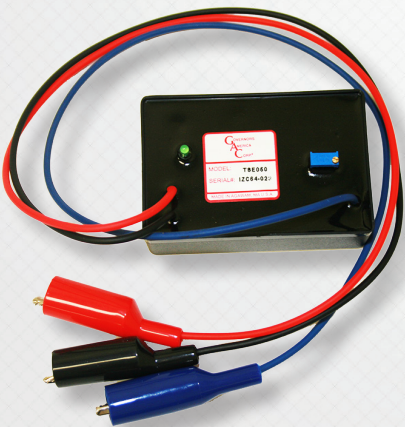
Magnetic Speed Pickup Installattion:

1. If no mounting loaction is available, then drill and tap a hole in the flywheel hous-
ing. The threaded hole should be perpendicular to the center line of the crankshaft
and centered over the ring gear teeth. Spot face the hole to provide a flat surface
on which to anchor the locknut. (Refer to the charts on the inner page for the thread
size of the Magnetic Speed Pickup)
2. Insert the magnetic speed pickup into the hole and turn it until the magnetic speed
pickup makes contact with the face of the gear.
3. Back out the magnetic pickup by turning it counter clockwise. (About a 3/4 turn)
The gap between the pickup and gear should be no smaller than 0.025 in (0.64 mm)
and 0.035 in (0.89 mm)



4. Wire leads should be twisted for their entire length from
the magnetic speed sensor to the control unit. Shielding is
required if external interference is present or the leads are
longer than 10 ft (3 m).

OPTIONS



TSE050 A New Tool For Your Toolkit!

The TSE050 simulates a running engine when connected to
the magnetic pickup input on a speed control. An on-board
potentiometer allows the signal to be adjusted between 750
to 10,000 Hz and is compatible with all GAC speed controls
using a magnetic pickup.

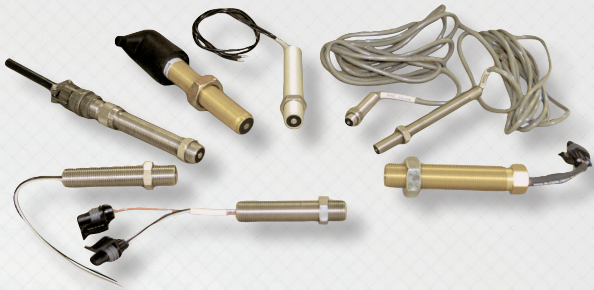
Contact Your Local Dealer:

Governors America Corp.
720 Silver Street Agawam, MA 01001
Phone: 413.786.5600 Fax: 413.789.7736
www.governors-america.com
info@governors-america.com



Magnetic Speed Pickups MSP SERIES

GAC's Magnetic Speed Sensors are a rugged and economic
solution for detecting engine speed. Sturdier than plastic
sensors and outperforming semiconductor-type devices at
high temperatures, GAC's epoxy encapsulated sensors are
unaffected by dust and dirt. Multiple sizes and customizable
configurations are available.



FEATURES

- Produces Electrical Frequency
- Requires No Energizing Circuit From Control
- Used On All GAC's Electronic Speed Controllers
- -65°F to +225°F (-55°C to +105°C)
Operating Temperature
- Available For Hazardous Location Installation
(Not Certified)

SPECIFICATIONS

Power Input	
Dimensions	See Chart on Inside Pages
Proximity to Gear Teeth	0.025 - 0.035 in. (0.64 - 0.89 mm)
Temperature Range	-65 °F to +225 °F (-55 °C to +105 °C)
Output	0.5 - 30 Volts RMS Is Recommended For Input To Control Units (1 V RMS When Cranking Engine)
Resistance (Varies From Sensor to Sensor)	160 - 1200 ohms

CONNECTORS



Automotive



Military



Packard










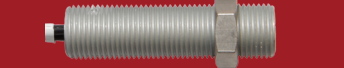





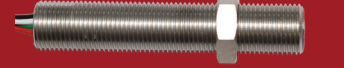
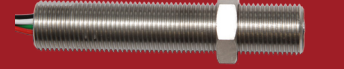

Dual Packard








Stud Terminals






SELECTION CHART






Units are: ^{inch}
(millimeter)

5/8 - 18 UNF Threaded			BODY LENGTH	THREAD LENGTH	CABLE LENGTH	CONNECTOR TYPE	DRILL SIZE
MSP674		3" Without Mating Half Connector / High Output	3.125 (79)	2.75 (70)	2.50 (64)	WIRE LEADS	37/64
MSP675		3" With 7" Leads	3.125 (79)	2.75 (70)	7.00 (178)	WIRE LEADS	37/64
MSP676		5" With 12" Leads	5.0 (127)	4.625 (118)	12.00 (305)	WIRE LEADS	37/64
MSP677		3" Without Mating Half Connector	3.125 (79)	2.75 (70)	n/a	MILITARY	37/64
MSP678		5" Without Mating Half Connector	5.00 (127)	4.75 (121)	n/a	MILITARY	37/64
MSP679		3" Mating Half Connector / Weather Boot	3.125 (79)	2.75 (70)	n/a	MILITARY	37/64
MSP6710		5" Mating Half Connector / Weather Boot	5.00 (127)	4.75 (121)	n/a	MILITARY	37/64
MSP6719		2.375" With 12" Leads	2.375 (60)	2.00 (51)	6.00 (152)	WIRE LEADS	37/64
MSP6720		4" With 6" Leads	3.875 (98)	3.50 (59)	4.500 (114)	WIRE LEADS	37/64
MSP6721		3" With 3" Leads	3.125 (79)	2.75 (70)	2.50 (64)	AUTOMOTIVE	37/64
MSP6721C		3" With 3" Leads / Mating Half Connector	3.125 (79)	2.75 (70)	2.50 (64)	AUTOMOTIVE	37/64
MSP6728		3" With 10" Leads	3.125 (79)	2.75 (70)	6.5 (165)	PACKARD	37/64
MSP6728C		3" With 10" Leads / Mating Half Connector	3.125 (79)	2.75 (70)	6.5 (165)	PACKARD	37/64
MSP6732		3" With 4" Leads / Dual Output	3.125 (79)	2.75 (70)	3.0 (76)	DUAL PACKARD	37/64
MSP6732C		3" With 4" Leads / Dual Output / Mating Half Connector	3.125 (79)	2.75 (70)	3.0 (76)	DUAL PACKARD	37/64
MSP6743		3.75" With 8/32 Stud Terminals	4.38 (111)	3.55 (90)	n/a	STUD	37/64

M18 x 1.5 Threaded			BODY LENGTH	THREAD LENGTH	CABLE LENGTH	CONNECTOR TYPE	DRILL SIZE
MSP6741		3.25" With 9" Leads	3.20 (81)	2.30 (58)	9.0 (229)	PACKARD	21/32

3/8 - 24 UNF-2A Threaded			BODY	THREAD LENGTH	CABLE LENGTH	CONNECTOR TYPE	DRILL SIZE
MSP6729		2.5" With 6' Shielded Cable	2.7 (69)	2.25 (57)	72.00 (1829)	WIRE LEADS	0.332
MSP6730		1.5" With 6' Shielded Cable	1.7 (43)	1.25 (32)	72.00 (1829)	WIRE LEADS	0.332
MSP6731		4.0" With 6' Shielded Cable	4.0 (102)	3.55 (90)	72.00 (1829)	WIRE LEADS	0.332
MSP6742		2.7" With 1' Shielded Cable	2.7 (69)	2.7 (69)	12.00 (305)	WIRE LEADS	0.332

3/4 - 16 UNF Threaded			BODY LENGTH	THREAD LENGTH	CABLE LENGTH	CONNECTOR TYPE	DRILL SIZE
MSP6724		3.5" With 3" Leads	4.00 (102)	3.375 (86)	2.50 (64)	AUTOMOTIVE	11/16
MSP6724C		3.5" With 3" Leads / With Mating Half Connector	4.00 (102)	3.375 (86)	2.50 (64)	AUTOMOTIVE	11/16
MSP6734		3.5" With 4" Leads	4.00 (102)	3.375 (86)	4.25	WIRE LEADS	11/16
MSP6735		3.5" With 3" Leads	4.00 (102)	3.375 (86)	2.50 (64)	PACKARD	11/16
MSP6744		2.29" With 8/32 Stud Term	3.50 (90)	2.29 (58)	n/a	STUD	11/16

M16 x 1.5 Threaded			BODY LENGTH	THREAD LENGTH	CABLE LENGTH	CONNECTOR TYPE	DRILL SIZE
MSP6714		3" Without Mating Half Connector	3.125 (79)	2.875 (73)	n/a	MILITARY	14mm
MSP6715		3" With Mating Half Connector / Weather Boot	3.125 (79)	2.875 (73)	n/a	MILITARY	14mm
MSP6723		3" With 3" Leads	3.125 (79)	2.75 (70)	2.50 (64)	AUTOMOTIVE	14mm
MSP6723C		3" With 3" Leads / With Mating Half Connector	3.125 (79)	2.75 (70)	2.50 (64)	AUTOMOTIVE	14mm
MSP6745		6" With Mating Half Connector	6.00 (152)	5.00 (127)	n/a	MILITARY	14mm

NOTE: For the most up-to-date list of magnetic speed pickups, go to governors-america.com. GAC is continuously adding new solutions for engine speed sensing.