

APPLICATION NOTE

Active inductive RPM sensor

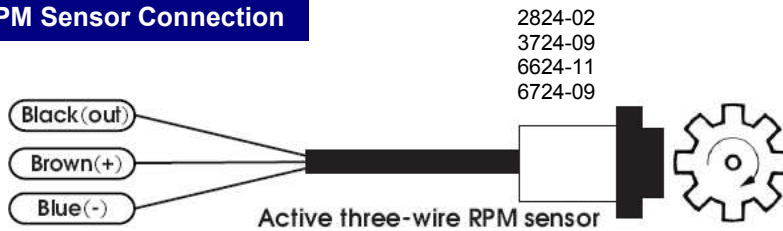
AN-06 for TL-2824, TL-3724, TL-6624, TL-6724

General Information

The Active Inductive RPM Sensor is a very reliable electronic sensor, which enables sensing the movement of the rotating parts of the engine. The sensor responds with an impuls if a metal object gets closer than approx. 1,2 mm.

⚠ NOTE: While installing the sensors in the engine, it is necessary to ensure that the cables leading from the sensors are placed at least 10 cm from the ignition lead, or other cables such as e.g. quenching cables from the magnetos.

Engine RPM Sensor Connection



TL-2824 RPM&ENGINE HOURS METER			
Input	Input Name	Sensor w/colour	I/O
17	Power +12 Volts for sensor	Brown	Out
18	Output from sensor	Black	In
14	Ground for sensor	Blue	--

TL-3724 COMBINED INSTRUMENT			
Input	Input Name	Sensor w/colour	I/O
2	Power +12 Volts for sensor	Brown	Out
16	Output from sensor	Black	In
20	Ground for sensor	Blue	--

EFIS & EMS TL-6624 and EMS TL-6724			
Input	Input Name	Sensor w/colour	I/O
P3 - 2	Power for RPM sensor	Brown	Out
P2 - 6	RPM - Positive pulse only	Black	In
P2 - 20	RPM - Ground for sensor	Blue	--

Rotor RPM Sensor Connection

EFIS & EMS TL-6624 and EMS TL-6724			
Input	Input Name	Sensor w/colour	I/O
P3 - 2	Power for RPM sensor	Brown	Out
P3 - 1	Auxiliary RPM pulse	Black	In
P3 - 20	Ground for auxiliary RPM sensor	Blue	--

Technical information:

Type of Sensor: IA05BSF10POP (Carlo Gavazzi, Italy)

Sensing Distance: 1,2mm (0.047inch)

Max. Operating Frequency: 150 pulses per rotation @ 10 000 RPM

Operation Temperature: -25°C to +70°C (-13°F to 158°F)

Rev. B

Information furnished by TL electronic is believed to be accurate and reliable

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