

APPLICATION NOTE

Thermocouple connection

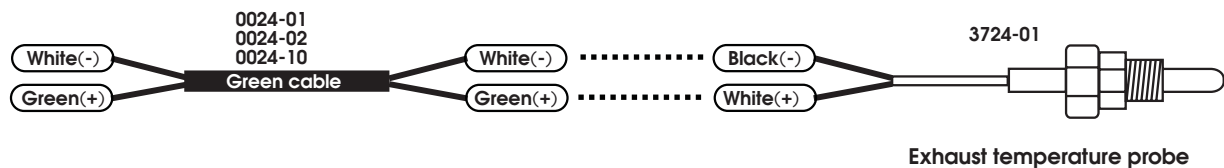
AN-02 for TL-3724

General Information

The thermocouple sensor is a very precise sensor based on the physical phenomenon of two different cables that are connected in the place of measuring. For this reason it is necessary to lengthen these sensors only with an extension cable that is suitable for the particular type of sensor.

! 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.

EGT Probe Connection

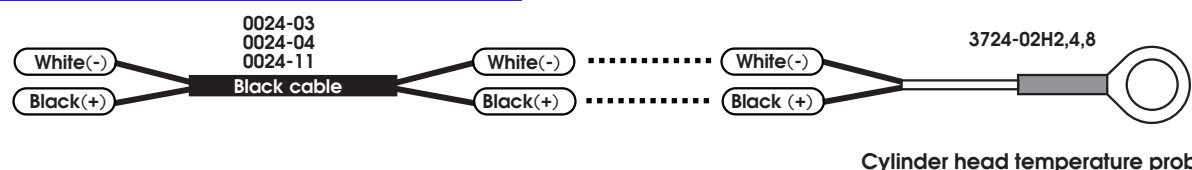


Input	Input Name	Cable w/colour	Probe w/colour	I/O
13	Thermocouple 1 - positive input	Green	White	In
14	Thermocouple 1 - negative input	White	Black	In
17	Thermocouple 2 - positive input	Green	White	In
18	Thermocouple 2 - negative input	White	Black	In
21	Thermocouple 3 - positive input	Green	White	In
22	Thermocouple 3 - negative input	White	Black	In
25	Thermocouple 4 - positive input	Green	White	In
26	Thermocouple 4 - negative input	White	Black	In
29	Thermocouple 5 - positive input	Green	White	In
30	Thermocouple 5 - negative input	White	Black	In
33	Thermocouple 6 - positive input	Green	White	In
34	Thermocouple 6 - negative input	White	Black	In

Technical information:

Type of Sensor: Thermocouple probe of type K (OEM, China)
 Temperature Range: -40°C to 1000°C (-40 to 537°F)

CHT Probe Connection



Input	Input Name	Cable w/colour	Probe w/colour	I/O
13	Thermocouple 1 - positive input	Black	Black	In
14	Thermocouple 1 - negative input	White	White	In
17	Thermocouple 2 - positive input	Black	Black	In
18	Thermocouple 2 - negative input	White	White	In
21	Thermocouple 3 - positive input	Black	Black	In
22	Thermocouple 3 - negative input	White	White	In
25	Thermocouple 4 - positive input	Black	Black	In
26	Thermocouple 4 - negative input	White	White	In
29	Thermocouple 5 - positive input	Black	Black	In
30	Thermocouple 5 - negative input	White	White	In
33	Thermocouple 6 - positive input	Black	Black	In
34	Thermocouple 6 - negative input	White	White	In

Technical information:

Type of Sensor: Thermocouple probe of type J (OEM, China)
 Temperature Range: -40°C to 350°C (-40 to 176°F)

Rev. C

Information furnished by TL elektronik is believed to be accurate and reliable.



TL elektronik, Airport, Building 125, Czech Republic - 503 41 Hradec Kralove

Tel: +420 49 548 23 92, +420 49 548 23 93 • Fax: +420 49 548 23 94
 Internet web page address: www.tl-elektronik.com • e-mail: info@tl-elektronik.com