

ALS Tire Wired

Advanced multi-channel infrared tire temperature sensor with CAN connectivity. Fully configurable, 16 temperature channels / tire with a refresh rate of up to 64Hz.

Knowing how the tire surface temperature evolves across a lap is invaluable for chassis tuning, driver training and tire selection.

Sensor

Temperature Range -40 to +300°C

Channels 16, 8, 4 or 1 (configurable)

Accuracy ± 1°C FOV 110°

Refresh Rate 1-64Hz (configurable)

Electrical

Supply Voltage 5 - 20V Supply Current 15mA

Physical

Dimensions 48.5 x 25.5 x 12 mm

Weight 25g

Material Aluminum or Polyamide-based

IP Rating IP66

Operating Temperature -40 to +85°C

Communications

CAN Standard 2.0A (11-bit identifier) or 2.0B

Bit Rate 500 Kbps (default) / 1 Mbps

Byte Order Big-Endian (MSB first)

CAN Termination Yes (configurable via jumper)

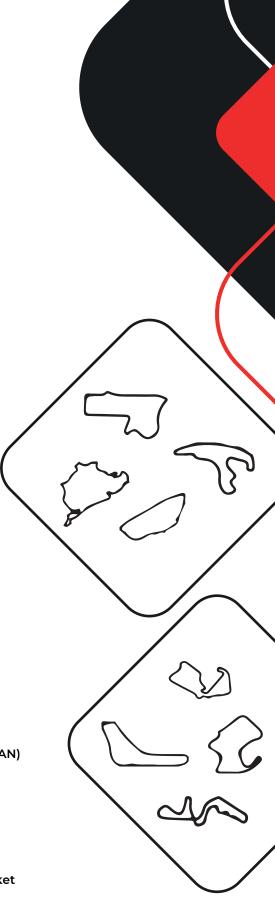
Base CAN Id Default 0x300 (configurable via CAN)

Temperature Conversion -200°C offset, 0.1°C / bit

Wiring

Cable 0.5m AWG22 cable with DR25 jacket

Connector DTM 4-pin (optional)



^{*} Please see ALS Tire Wired CAN Protocol document for full details regarding the communication protocol.