



## 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           |

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

### Wiring

|           |                                   |
|-----------|-----------------------------------|
| Cable     | 0.5m AWG22 cable with DR25 jacket |
| Connector | DTM 4-pin (optional)              |

