The single-point infrared sensor is designed for non-contact temperature measurement in motorsport and automotive applications. Common uses include the temperature measurement of tyres, asphalt, and cabin interiors. The sensor is capable of measuring temperatures from -70 to 380˚C, using CAN 2.0A protocol.

SENSOR SPECIFICATIONS

Temperature Measurement Range, T_o	-70 to 380˚C
Package Temperature Range, T_p	-40 to 85˚C
Accuracy	< ±1% Full-Scale (typ. ±1.0˚C)
Noise Equivalent Temperature Difference, NETD	0.18˚C
Field-of-View, FOV	35˚
Sampling Frequency	8Hz
Spectral Range	8 to 14 μm

ELECTRICAL SPECIFICATIONS

Supply Voltage, V_{in}	5 to 8 V
Supply Current, I_s (typ)	30 mA
Features	• Reverse polarity protection • Over-temperature protection (125˚C)

MECHANICAL SPECIFICATIONS

Weight	30 g
L x W x H (max)	31 x 34 x 15 mm
Protection Rating	IP66