

## IRN8C2 8 channel infrared temperature sensor for CAN Bus

Range -20 to +200 °C  
Accuracy @ 180 °C +/- 1 % FS  
Default response time 260ms @200 °C (= 400ms on raw input)

Supply Voltage 6 to 16 V  
Supply current 17 mA

Measurement 8 channels in line  
Mean Angle between channels 4.5°  
Total width see table (total angle 41.6°)  
Field of view for 90% signal 6.5 : 1 (30mm at 200mm)  
IR Wave length 8 to 14µm  
Emissivity 99%  
Calibrator Land P550P  
Lens protection Replaceable window

Dim (mm) 31 x 11 x 17  
Material Aluminium  
Weight 15 g  
Protection IP64

Vibration test 20Gpp 5'  
Shock 1000G

Operating Temp -20 to +100 °C  
Storage Temp -40 to +125 °C

CAN bus 120 ohms (resistor not installed)  
Output Data calibrated temperature: 2 bytes (signed int) per channel  
Resolution 0.1 ° bit  
Parameters configurable:  
Identifiers, Baud rate, frequency ...  
+ Degree/Celsius, gain factor, response time

Connection 4 x AWG26 FEP tinned copper braided cable 250V 200 °C  
Tubing 50mm DR25TW

Wire Colour	Function
Red	SUPPLY (6 to 16V)
Black	0V
Green	CAN High
White	CAN Low

Braid not connected

Distance	Øtarget per channel	Total width
200 mm	30 mm	152 mm
300 mm	45 mm	228 mm
400 mm	60 mm	304 mm
500 mm	75 mm	380 mm
600 mm	90 mm	456 mm
700 mm	105 mm	532 mm

