

# TEMPERATURE SENSORS

ARaymond temperature sensors **take efficient thermal management of electric vehicles to the next level.**



STANDALONE



**COMPACT**  
for any tight space



**LIGHTWEIGHT**  
plastic enclosure



**LOW PRESSURE DROP**  
for optimized flow



**FIRE RESISTANT**  
UL94 V0 rated materials

Benefits of **ASSEMBLED**  
or **FULLY INTEGRATED** options:

- All-in-one solutions<sup>1</sup> compatible with multiple ARaymond QC families
- Fewer fluid interfaces
- Proven reliability<sup>2</sup>



ASSEMBLED  
into one of our QCs





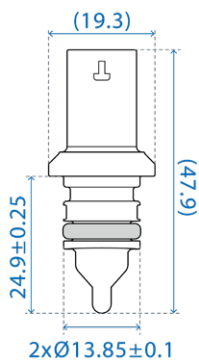
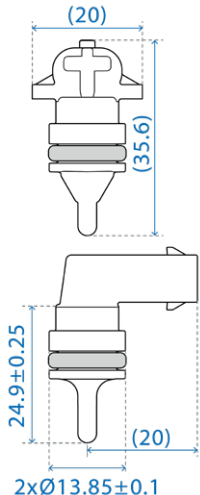
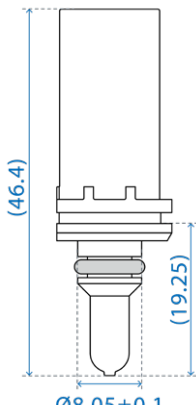
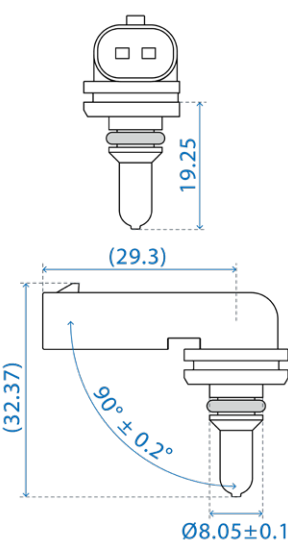


FULLY INTEGRATED  
into one of our QCs

<sup>1</sup>Full warranty included.

<sup>2</sup>Tested and validated for automotive applications.

# PRODUCT SPECIFICATIONS

CATALOG CODE	TS1S	TS1E	TS2S	TS2E
SENSOR MODEL				
DIMENSIONS (mm)				
WEIGHT (without retainer)	~6g		~6g	
OPERATING TEMPERATURE RANGE	-40°C to +125°C <sup>1</sup>		-40°C to +125°C	
RESPONSE TIME (stirred water)	T63% < 5s		T63% < 10s	
TYPICAL CONNECTOR INTERFACE	MLK – 1.2 Keying A, B or C According to USCAR 120-S-002-1-Z02		MLK – 1.2 Keying A According to USCAR 120-S-002-1-Z02	
PIN COATING	Silver <sup>2</sup>		Tin	
RESISTANCE VALUE <sup>3</sup> @25°C	2,25kΩ or 10kΩ or 30kΩ		2,1kΩ or 10kΩ	
BODY MATERIAL	PPS GF30		PPS GF40	
SENSOR FIXING	Metallic retainer			
PROTECTION	IP69K			

<sup>1</sup>Possible to operate at a higher temperature depending on the QC temperature range. | <sup>2</sup>Tin coating on demand.

<sup>3</sup>Other nominal resistance, beta value, and operating points are possible on demand. The tolerance range is defined per the customer's request.

[www.araymond-mobility.com](http://www.araymond-mobility.com)

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