

TEMPERATURE SENSORS

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



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 solutions¹ compatible with multiple ARaymond QC families
- Fewer fluid interfaces
- Proven reliability²



ASSEMBLED
into one of our QCs





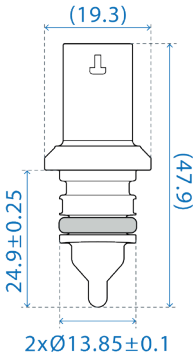
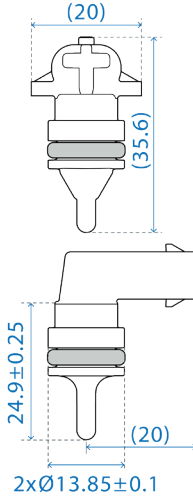
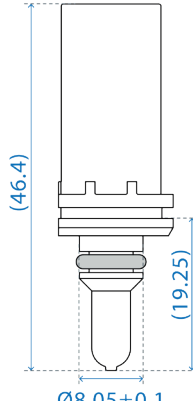
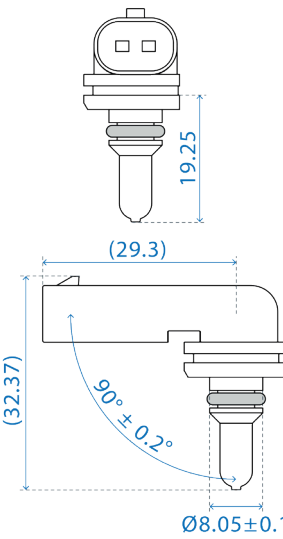


FULLY INTEGRATED
into one of our QCs

¹Full warranty included.

²Tested 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 ¹		-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 ²		Tin	
RESISTANCE VALUE ³ @25°C	2,25kΩ or 10kΩ or 30kΩ		2,1kΩ or 10kΩ	
BODY MATERIAL	PPS GF30		PPS GF40	
SENSOR FIXING	Metallic retainer			
PROTECTION	IP69K			

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

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

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