TEMPERATURE SENSORS

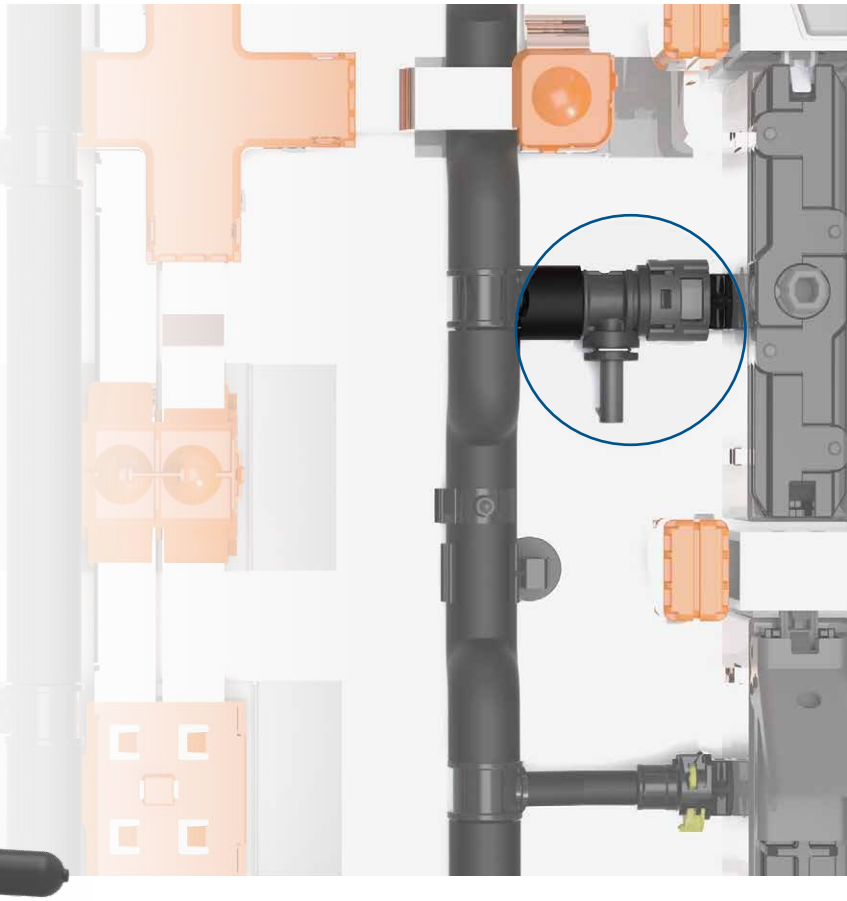
ARaymond temperature sensors **take efficient thermal management of electric vehicles to the next level.**

COMPACT
for any tight space

LIGHTWEIGHT
plastic enclosure

LOW PRESSURE DROP
for optimized flow

Choice of
SUSTAINABLE materials[1]



Benefits of ASSEMBLED or FULLY INTEGRATED options:

- All-in-one solutions[2] compatible with multiple ARaymond QC families
- Fewer fluid interfaces
- Proven reliability[3]

[1] *PA610 or other materials can be selected depending on availability.*
[2] *Full warranty included.*
[3] *Tested and validated for automotive applications.*

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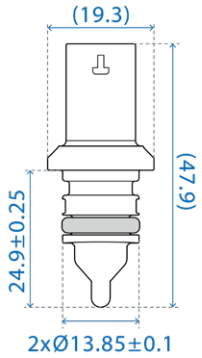
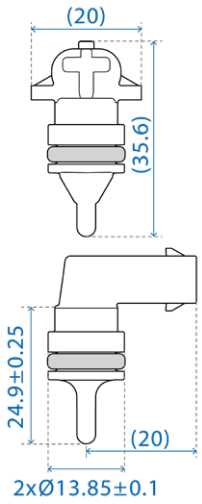
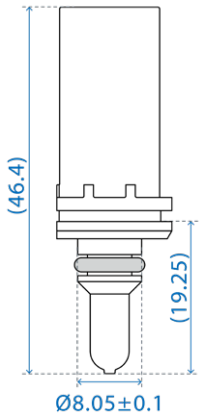
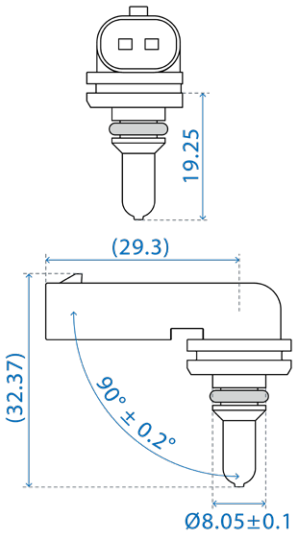
PRODUCT SPECIFICATIONS

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 or B According to USCAR 120-S-002-1-Z02		MLK – 1.2 Keying A or B According to USCAR 120-S-002-1-Z02	
PIN COATING	Silver[2]		Tin	
RESISTANCE VALUE[3]	10KΩ @ 25°C		10KΩ @ 25°C or 2,1KΩ @ 25°C	
BETA 25/85[3]	3974K		3977K	
BODY MATERIAL	PA610 GF30		PPS GF40	
SENSOR FIXING	Metallic retainer			
PROTECTION	IP69K			

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