JS8741
Integrated Pipe Clip
Surface Temperature Sensor

Thermometrics JS8741 Integrated Pipe Clip Surface Temperature Sensor is a clip-on temperature sensor that monitors the temperature of a fluid or gas that passes through a pipe or tubing circulation system. A system control module receives this temperature reading and uses a control loop to control the overall system temperature. This could be engine temperature, heater temperature, industrial or process supply line temperature, etc.

Applications

• Engine Coolant Temperature
• Battery Pack Coolant Line Temperature
• Process Flow Management
• HVAC Water and Refrigeration
• Home Appliances

Features

• Easy to mount spring-loaded clip of galvanized spring steel
• High sensitivity
• Compact design
• Integrated connector with locking mechanism
• VW75174 approved connector system
• IP57 Ingression Protection Rating
JS8741 Specifications

Operating Temperature
-40°C to 85°C

Storage Temperature
-40°C to 85°C

R @ 25°C
JS8741A: 2.7kΩ ±5%
JS8741B: 10.0kΩ ±5%
JS8741C: 30.0kΩ ±5%

Beta (25/85)°C
3977K

Response Time
~20 seconds mounted on a metallic pipe

Housing Material
Polyamide 6
Color: Grey

Clip Material
Galvanized Steel

Weight
10g

Mating Connector
Amphenol FEP - 428 313 000
TE Connectivity (TE) 1-1718643-1

Homologations
ISO 16750
Dimensions are in mm [IN]

Dimensions shown are for envelope size. Contact Product Engineering for detailed drawings.
JS8741 Ordering Options

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance @ 25°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS8741A</td>
<td>2.7kΩ ±5%</td>
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*Customized resistance versus temperature is possible.