

T H E R M O M E T R I C S
A C O M M I T M E N T T O E X C E L L E N C E

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

Amphenol
Advanced Sensors

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

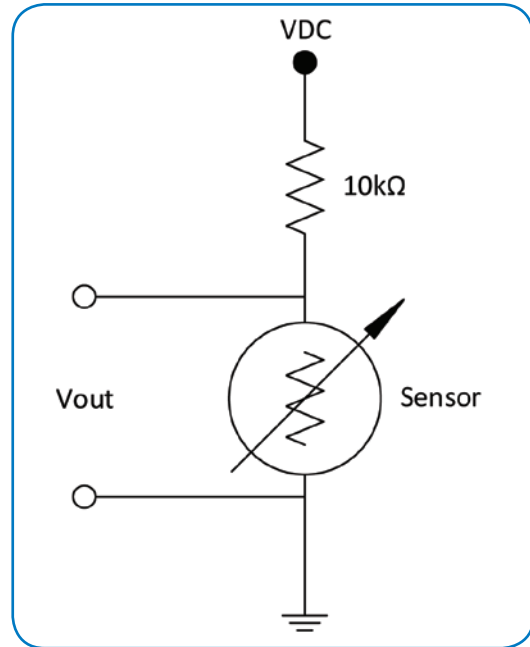
Mating Connector

Amphenol FEP - 428 313 000

TE Connectivity (TE) 1-1718643-1

Homologations

ISO 16750

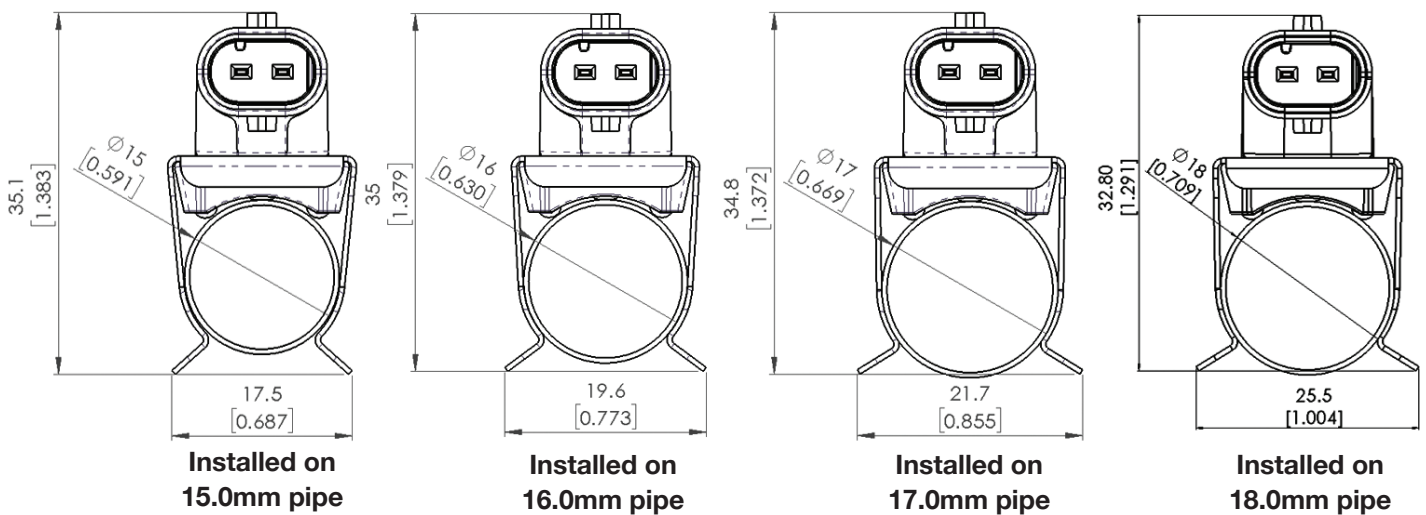
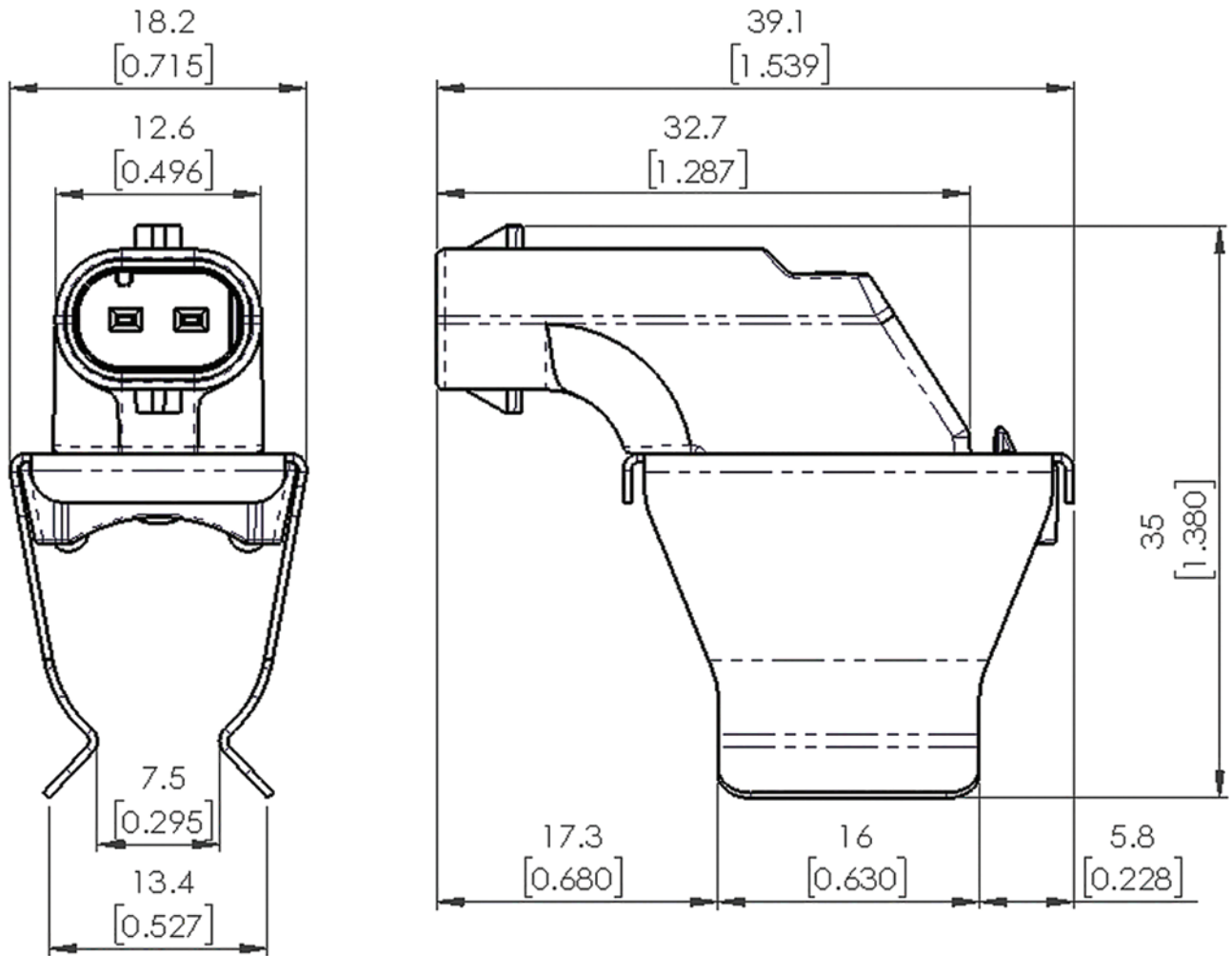


Typical Circuit Diagram



Typical Application

JS8741 Specifications (Continued)



Dimensions are in mm [IN]

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

JS8741 Ordering Options

Part Number	Resistance @ 25°C
JS8741A	2.7kΩ ±5%
JS8741B	10.0kΩ ±5%
JS8741C	30.0kΩ ±5%

*Customized resistance versus temperature is possible.