Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!
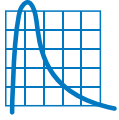

Contact us

Integrated Pipe Clip Surface Temperature Sensor JS8741

The 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

- Quick Mount Spring-Loaded Clip
- Easy-mount spring clip of galvanized spring steel
- High sensitivity temperature measurement
- 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 120°C

Storage Temperature

-40°C to 120°C

R @ 25°C

2.70 kΩ ± 5% @ 25 °C – JS8741A

10.0 kΩ ± 5% @ 25 °C – JS8741B

30.0 kΩ ± 5% @ 25 °C – JS8741C

(Customized resistance versus temperature is possible)

Beta (25/85)°C

3977 K

Response Time

~20 seconds mounted on a metallic pipe

Housing Material

Polyamide 6
Color: Grey

Clip Material
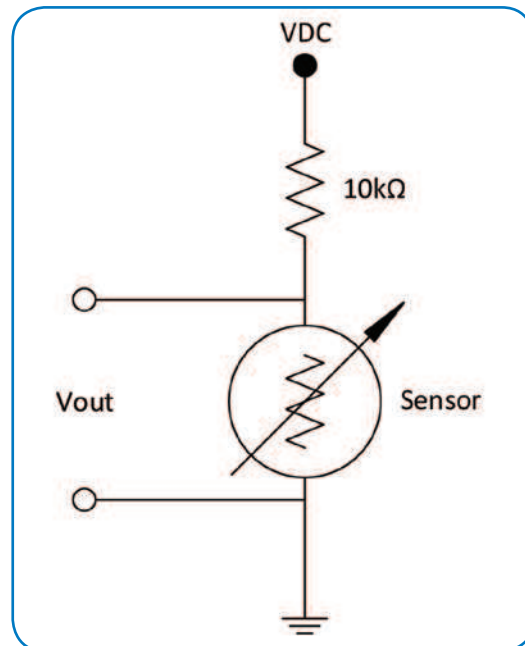
Galvanized Steel

Weight

10g

Mating Connector

Amphenol FEP - 428 313 000

TE Connectivity (TE) 1-1718643-1
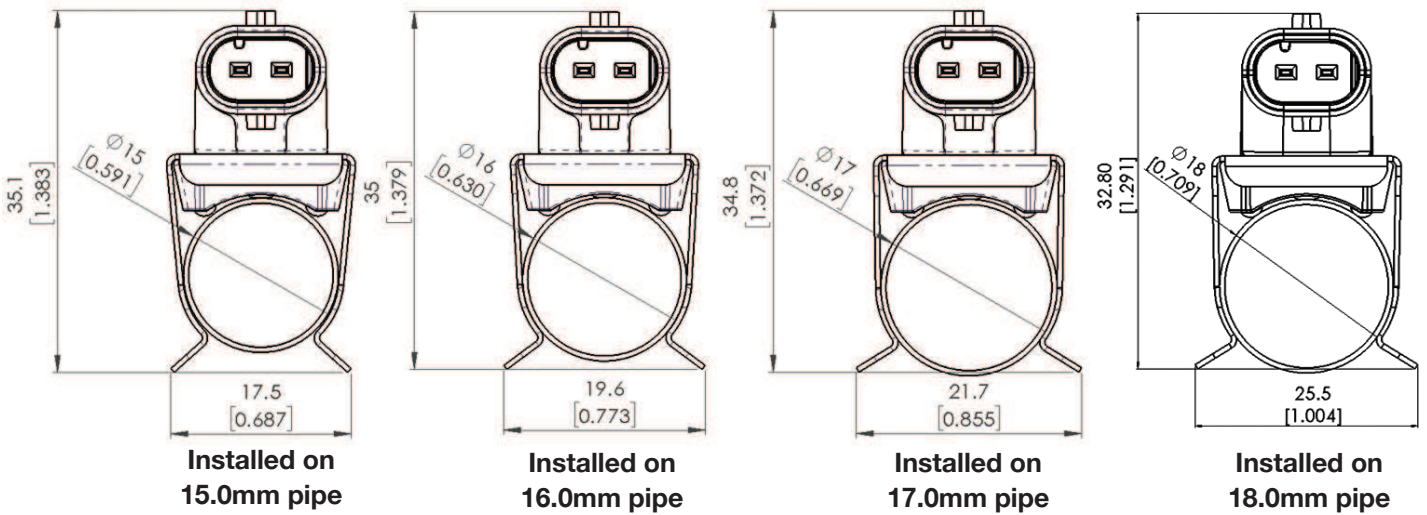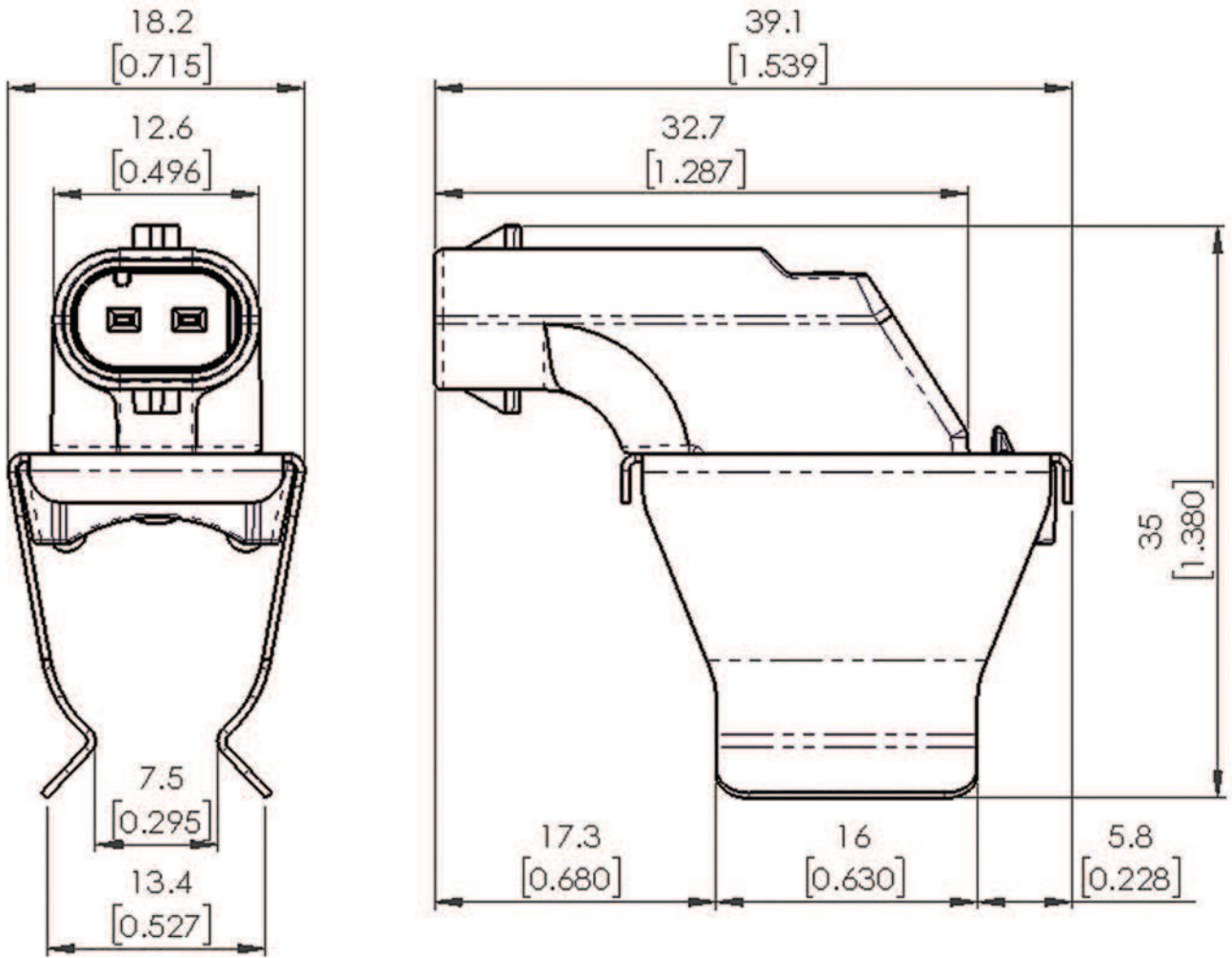
Homologations

AEC Q200 REV (D) - Pending

Typical Circuit Diagram

Typical Application

JS8741 Specifications

18.2 [0.715]

12.6 [0.496]

7.5 [0.295]

13.4 [0.527]

39.1 [1.539]

32.7 [1.287]

35 [1.380]

17.3 [0.680]

16 [0.630]

5.8 [0.228]

Ø15 [0.591]

35.1 [1.383]

17.5 [0.687]

Installed on 15.0mm pipe

Ø16 [0.630]

35 [1.379]

19.6 [0.773]

Installed on 16.0mm pipe

Ø17 [0.669]

34.8 [1.372]

21.7 [0.855]

Installed on 17.0mm pipe

Ø18 [0.709]

32.80 [1.291]

25.5 [1.004]

Installed on 18.0mm pipe

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%

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