Technical Sheet

The **PR8028** is an air temperature sensor, specially designed for automotive climate control applications.

Built in a Deutsch water tight connector, PR8028 is intended for interior and exterior, automotive or industrial applications use.

Two options are available for this product. Option 1 operational temperature range is -40°C to +85°C. It operates under regulated voltage 5 to 10V. For option 2, the operational temperature range is -17°C to +80°C. It operates under regulated voltage 10 to 30V.

Technical and physical description

PR8028-00

- **Supply voltage typical :** 5V to 10V [1]
- **Temperature sensing range:** -40°C to 70°C at 5V and -40°C to 85°C at 10V
- **Output signal:** 1.0 to 4.8V at 5V and 1.0 to 5.3V at 10V
- **Output scale factor:** 34.6mV / °C
- **Accuracy:** better than 2.0°C at room temperature
- **Response time in still air:** 90% of the final value in 2 minutes

[1]Warning: There is no protection on the power supply on this product. Be careful not to exceed 10V. Regulated supply is recommended.

PR8028-01

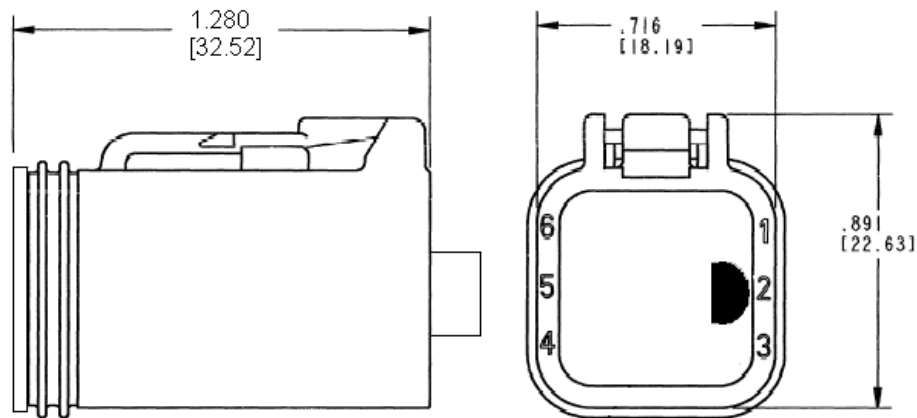- **Supply voltage typical :** 10 to 30V [2]
- **Temperature sensing range:** -17°C to 80°
- **Output signal:** 0 to 9.7V
- **Output scale factor:** 100mV / °C
- **Accuracy:** better than 1.7°C at room temperature
- **Response time in still air:** 90% of the final value in 2 minutes

[2]Warning: There is no protection on the power supply on this product. Be careful not to exceed 30V. Regulated supply is recommended.

Ordering information	Part Number
Temperature Sensor	PR8028-00
Temperature Sensor	PR8028-01

For more information, contact our sales department.

Dimensions and Pin Assignment

J1 pin name				
Pin name	**#**		**Pin name**	**#**
VREG +	1		OUT	4
n/c	2		n/c	5
GND	3		n/c	6

Note: Measurements in inches [mm].

Mating Connections

	J1
Description	Power and signal Connector
Positions	6
Type	Female
Manufacturer	Deutsch
Mating parts available from PRAN	CONNECTOR: DT04-6P
	TERMINAL: 0460-202-16141
	WEDGE LOCK: W6P