



6000 Series temperature sensor

6000-TSEN-01

- Remote sensor
- Suitable for Zone 1 and Division 1 mounting
- Intrinsically safe when used with the 6000 Series purge system control unit
- Easy mounting for temperature measurements up to 3 m from the temperature hub

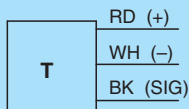
Temperature Sensor for 6000 Series Purge system




Function

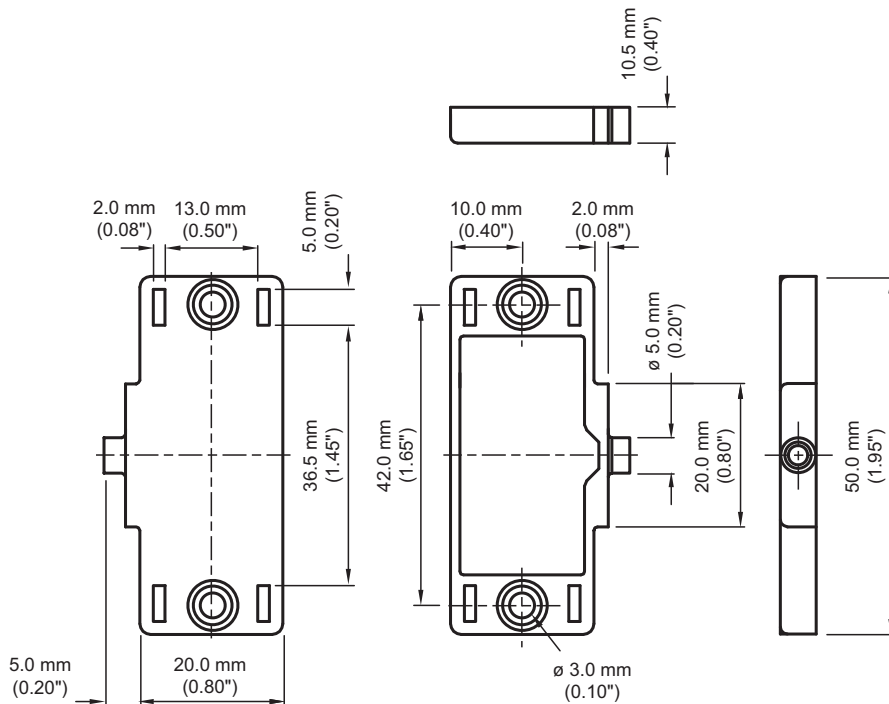
The 6000-TSEN-01 temperature sensor is designed to be used with the 6000-TEMP-01 temperature hub and the 6000 Series purge and pressurization system. Up to three (3) 6000-TSEN-01 temperature sensors can be mounted throughout the purged enclosure and connected to one (1) temperature hub. Multiple sensors can provide maximum or average enclosure temperature. The 6000-TSEN-01 can only be used with the 6000-TEMP-01 temperature hub and cannot be used as a standalone device. This unit can be mounted in Zone 1 & 21 and Class I & II / Division 1 locations. Note: The 6000-TSEN-01 is not required for a single temperature point as one (1) is included within the 6000-TEMP-01 device.

Connection



 Zone 1, 2
Class 1, Div. 1, 2

Dimensions



Technical Data

General specifications		
Series	6000 Series	
System	Type X Purge ; Ex pxb Purge	
Electrical specifications		
Connection		
Power	+ , - , sensors	
Rated voltage	U_r	5.5 V DC
Rated current	I_r	max. 10 mA
Open loop voltage	9.6 V	
Distance	3 m from 6000 control unit 3 m from 6000-TEMP-01	
Ambient conditions		
Ambient temperature	-20 ... 100 °C (-4 ... 212 °F)	
Storage temperature	-40 ... 100 °C (-40 ... 212 °F)	
Relative humidity	< 95 % non-condensing	
Vibration resistance	1 g , 10 ... 100 Hz , all axes	
Impact resistance	30 g , 11 ms, all axes	
Mechanical specifications		
Housing material	Ryton BR III BL	
Degree of protection	IP65	
Cable	Gray PVC	
Diameter	5.03 mm ²	

Release date: 2025-06-18 Date of issue: 2025-06-18 Filename: 70117512_eng.pdf

Technical Data

Wire gauge	22 AWG
Mass	approx. 110 g
Dimensions	50 mm x 25 mm x 5 mm
Mounting	panel or DIN rail mounting
Data for application in connection with hazardous areas	
EU-type examination certificate	UL/Demko 07 ATEX 0705753X
International approvals	
UL approval	File no: E184741
cULus	File no: E184741
IECEx approval	IECEx UL 08.0003X