

T7416

Outside Air Temperature Sensors

외기 온도 감지기



개요

벽면 취부 평면 온도 감지기이며 HVAC 시스템에 사용됩니다.

모델

OS-No.	Description
T7416A1014	OAT sensor with Pt 1000 sensing element
T7416A1022	OAT sensor with NTC 20k Ω sensing element
T7416A1030	OAT sensor with NTC 10k Ω sensing element

특성 및 규격

Ambient Limits I

Transport and storage temperature : -40 ... +70°C (-40 ...+158°F)

Humidity : 5...95%rh, non condensing

Safety I

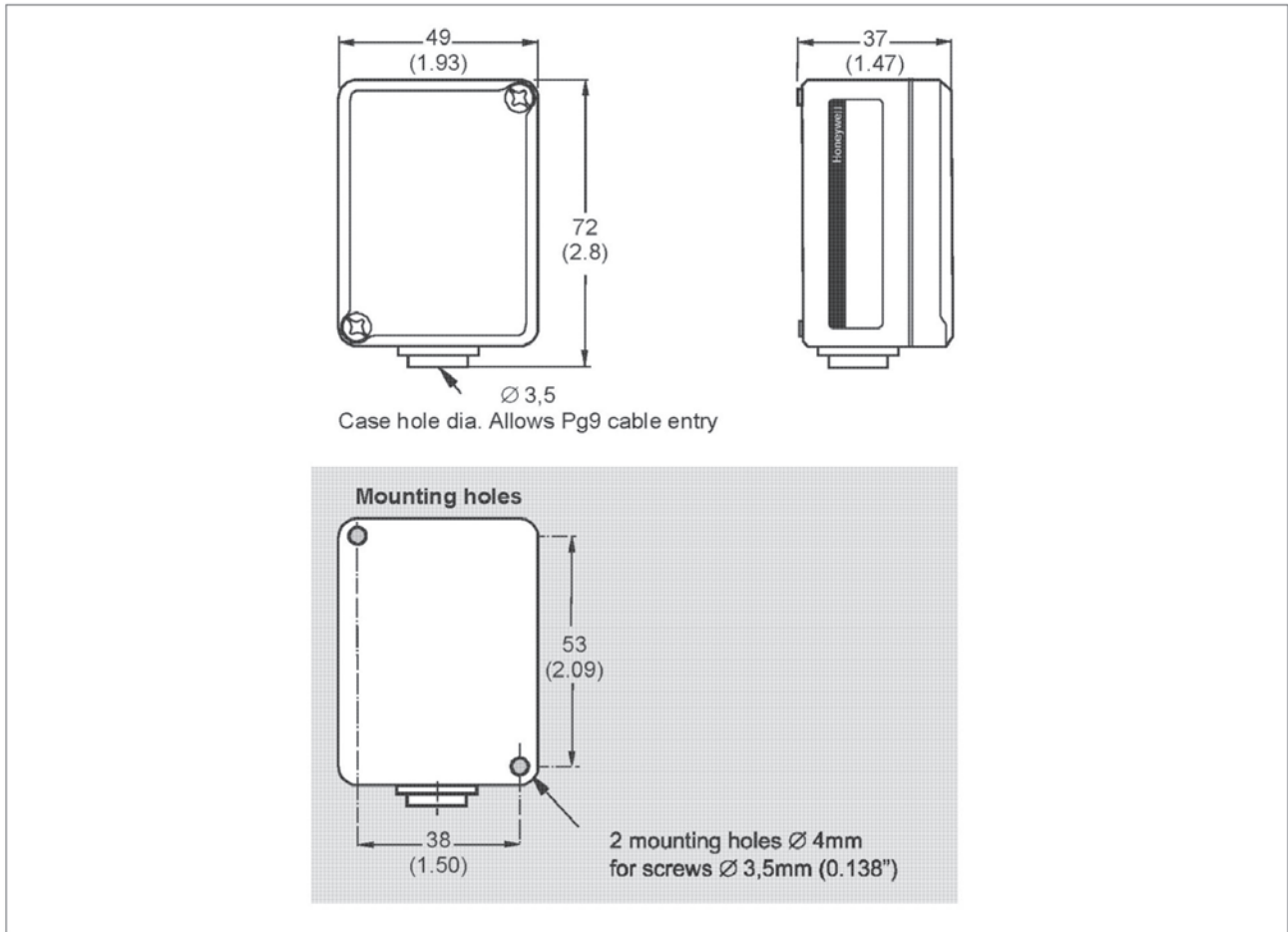
Protection standard terminal box and tube : IP54 in acc. with EN60529

Weight I 60 g

Temperature Sensor I

Sensing Element	Temperature Sensing Range	Nominal Value	Sensitivity	Accuracy	Response Time $\tau_{0.5}$
Pt 1000	-40 ... +70°C (-40 ...+158°F)	1000 Ω @ 0°C	- 3,85 Ω / K	DIN IEC751 Class B $\Delta T/K = 0,3 + 0,005 \cdot t$ (t = °C)	≈ 7 min
NTC 20k Ω		20 k Ω @ 25°C	nonlinear	0,2 K @ 25°C	
NTC 10k Ω		10 k Ω @ 25°C	Charact.		

외형 및 크기 (단위 : mm)



설치

Wiring Run	Maximum Length
Sensor to controller	200m (660ft)

Offset of Pt 1000 sensor due to wire resistance per 10m distance from sensor to controller; NTC sensor negligible:

Type of Wire	Temperature Offset
0,5mm ² (AWG20)	0,18°C (0,324°F)
1,0mm ² (AWG17)	0,09°C (0,162°F)
1,5mm ² (AWG15)	0,06°C (0,108°F)

NOTE: Use shielded wiring in areas with high EMI. Keep 15cm (5,9") minimum distance between sensor lines and 230Vac power lines.

