

# S665 Thermal-Tab Sensor

Thin-film RTD element



S665 Thermal-Tab sensor

Install this compact sensor anywhere for accurate point sensing and fast response.

## S665 specifications

**Temperature range:** -50 to 155°C -58 to 311°F

**Dimensions W × L × T (max. measured over the lead bulge.):**  
0.20 × 0.50 × 0.08" (5 × 12 × 2 mm)

### Element options:

Sensing element specifications	Code
Platinum 385, 100 Ω ±0.12% at 0°C (EN60751, Class B)	PD
Platinum 385, 1000 Ω ±0.12% at 0°C	PF
Platinum 375, 1000 Ω ±0.12% at 0°C	PW

**Insulation:** Kapton with elastomer cover coat

**Leadwire:** AWG 26, PTFE insulated

**Time constant:** 0.8 seconds in water at 1 m/second

**Backing:** Pressure-sensitive adhesive (PSA)

Design kit model number	Element code	Number of leads	Lead length in inches	Adhesive backing
S665PDZ40B	PD	3	40	B

## Specification options

S665	Model number
PD	Sensing element from table
Z	Number of leads: Y = 2 leads Z = 3 leads
40	Lead length in inches: 60" max.
B	Adhesive backing: A = No adhesive B = Pressure-sensitive adhesive (PSA)
S665PDZ40B = Design kit part number	

### Note:

PSA reduces temperature range to -20 to 177°C (-4 to 350°F) and adds 0.005" (0.1 mm) to thickness.

For temperature conversion, refer to the included resistance vs. temperature table (pg 16).