

# TEMPERATURE

## EXTREME TEMPERATURE SENSORS

### BA/\*RPFEP SERIES



#### DESCRIPTION

The **BAPI BA Series Extreme Temperature Thermistor and RTD Sensors** are designed for use in applications from -200° to 600°C. The parts come with stainless steel probe and packages to handle moisture and wide temperature ranges.

#### FEATURES

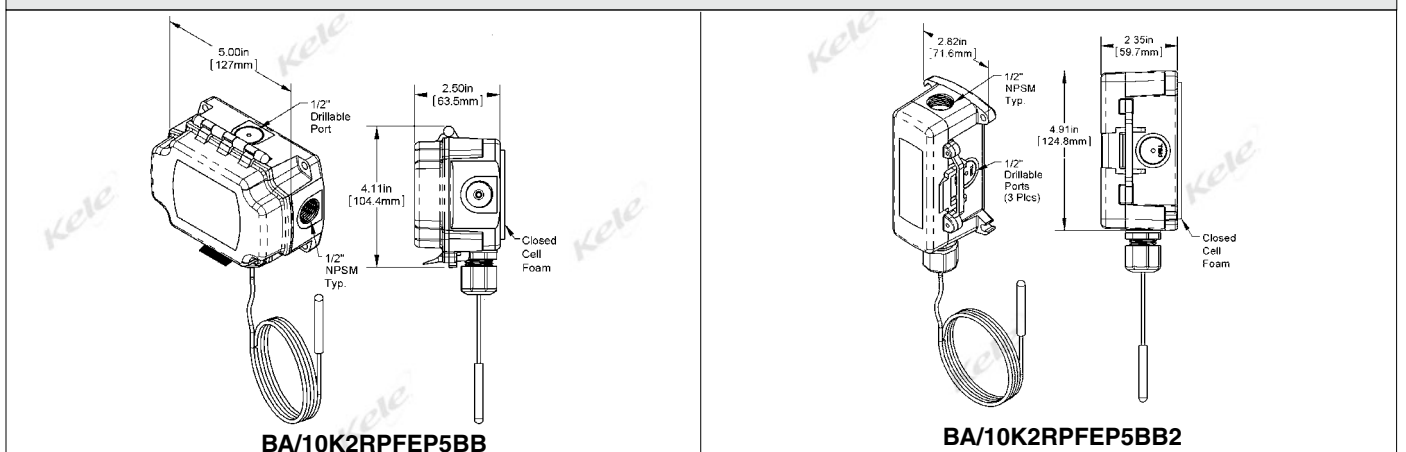
- **Three watertight enclosure**
- **Limited Lifetime warranty**



#### SPECIFICATIONS

<b>Accuracy</b>		<b>Enclosure</b>	
<b>Thermistor</b>	$\pm 0.36^{\circ}\text{F}$ ( $0.20^{\circ}\text{C}$ )	<b>BB</b>	NEMA 4, BAPI Box-IP66, UV-resistant, polycarbonate
<b>RTD</b>	$\pm 0.55^{\circ}\text{F}$ ( $0.30^{\circ}\text{C}$ )	<b>BB2</b>	NEMA 4, BAPI Box 2-IP66, UV-resistant, polycarbonate
<b>Sensor Type</b>		<b>BB4</b>	NEMA 3R, BAPI Box 4-IP44, Nylon & plastic
<b>Thermistor</b>	10k $\Omega$ , Type II & III	<b>WP</b>	NEMA 3R, cast aluminum
<b>RTD</b>	100 $\Omega$ , 1000 $\Omega$ 385 curve, 1000 $\Omega$ 375 curve	<b>Mounting</b>	Directly to wall or pipe
<b>Temperature Range</b>		<b>Wiring Terminations</b>	22 AWG wire, etched teflon leads
<b>Thermistor</b>	-40° to 221°F (-40° to 105°C)	<b>Weight</b>	
<b>RTD</b>		<b>RPFEP5</b>	0.55 lb (0.25 Kg)
<b>1002</b>	212° to 410°F (100° to 210°C)	<b>RPFEP10</b>	0.6 lb (0.27 Kg)
<b>1k1</b>	-328° to 32°F (-200° to 0°C)	<b>RPFEP15</b>	0.65 lb (0.29 Kg)
<b>1K3</b>	392° to 1112°F (200° to 600°C)	<b>Approvals</b>	CE, RoHS
<b>Stability</b>	<0.036°F (0.02°C) per year, 0.14°C with 6,000 continuous hours at 400°C	<b>Warranty</b>	Lifetime
<b>Heat Dissipation</b>	2.7 mW/°C (power need to raise the temperature 1°C), 0.4°C/mW at 0°C		

#### DIMENSIONS



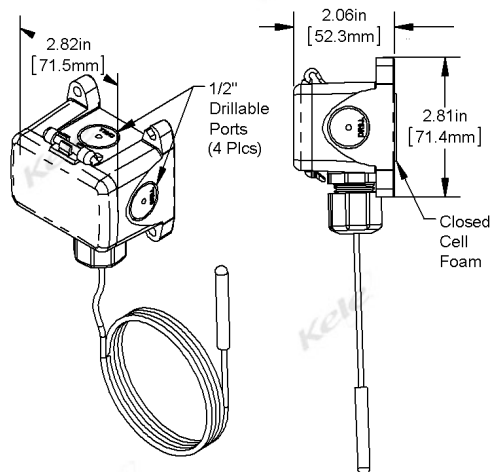


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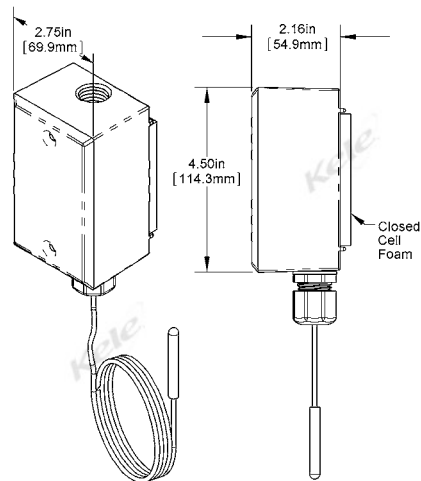
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### BA/\*RPFEP SERIES

#### DIMENSIONS



BA/10K2RPFEP5BB4



BA/10K2RPFEP5WP

#### ORDERING INFORMATION

MODEL	DESCRIPTION
BA/	Remote probe sensor
<b>REQUIRED SENSOR TYPE</b>	
10K2	10K thermistor @ 77°F (25°C), Type 2, -40° to 221°F (-40° to 105°C)
10K3	10K thermistor @ 77°F (25°C), Type 3, -40° to 221°F (-40° to 105°C)
1002	100 ohm RTD @ 32°F (0°C), 385 curve, range 212° to 410°F (100° to 210°C)
1K1	1000 ohm RTD @ 32°F (0°C), 385 curve, range -328° to 32°F (-200° to 0°C)
1K2	1000 ohm RTD @ 32°F (0°C), 385 curve, range 212° to 410°F (100° to 210°C)
1K3	1000 ohm RTD @ 32°F (0°C), 385 curve, range 392° to 1,112°F (200° to 600°C)
<b>REQUIRED PROBE TYPE AND LENGTH</b>	
RPFEP5	Sensor with 5' wire leads, PTFE jacketed cable for 1K3, fiberglass insulated for 10K2, 10K3, 1002, 1K1 & 1K2
RPFEP10	Sensor with 10' wire leads, PTFE jacketed cable for 1K3, fiberglass insulated for 10K2, 10K3, 1002, 1K1 & 1K2
RPFEP15	Sensor with 15' wire leads, PTFE jacketed cable for 1K3, fiberglass insulated for 10K2, 10K3, 1002, 1K1 & 1K2
<b>REQUIRED MOUNTING ENCLOSURE</b>	
BB	IP66, UV resistant
BB2	IP66, UV resistant, polycarbonate
BB4	IP66, UV resistant, nylon & plastic
WP	NEMA 3R weatherproof UV resistant enclosure

BA/ 1K1 RPFEP10 BB **Example: BA1K1RPFEP10BB** 1000 ohm 385 curve-328 to 32°F, with 10' fiberglass insulated leads and BAPI-box

#### RELATED PRODUCTS

T85U-XR	1000 ohm, Type 85 4-20 mA temperature transmitter, custom rangeable
T81U-XR	100 ohm, Type 81 4-20 mA temperature transmitter, custom rangeable
T91U-XR	1000 ohm, Type 91 4-20 mA temperature transmitter, custom rangeable