

- High accuracy
- · Line or ambient sensing
- External adjustment knob
- UL, CSA and FM approved
- · Non hazardous locations

These thermostats are ideal for freeze protection or temperature control of trace heating circuits in more demanding industrial applications. The BARTEC BMC-1A and BMC-1L series thermostats feature 10 foot stainless steel sensors for remote monitoring and local mount sensors for ambient temperature sensing. The BARTEC BMC series feature limit switches with 22 A at AC 120/250/480 V that allow thermostats to be used for higher current, heat tracing applications.

The BMC series models are all UL listed & CSA approved for non hazardous areas.

### Function

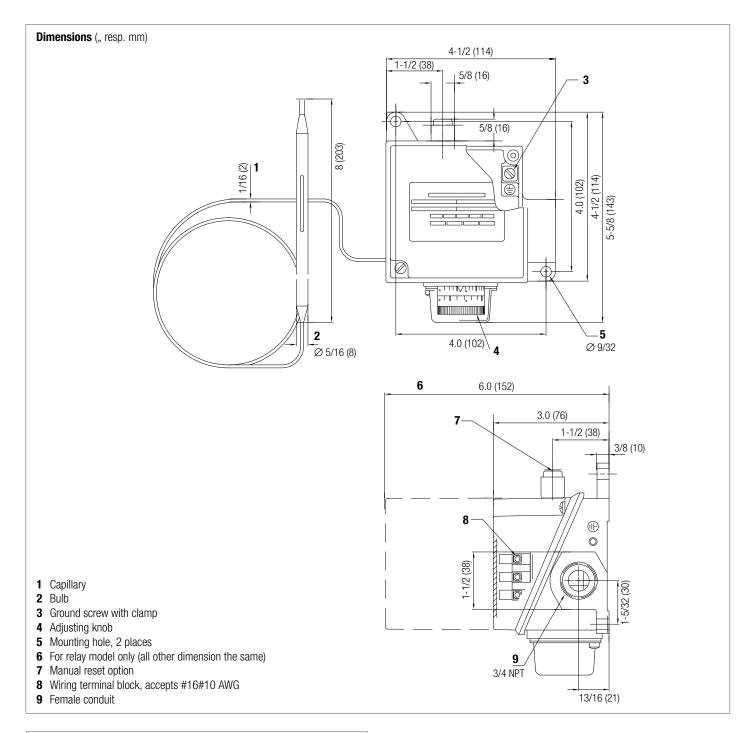
A change in temperature in the sensor causes a change in volume in the fluid filled in the measuring system, which in turn results in a movement of a membrane, which is connected to transmission mechanics and activates a micro switch. If the sensor temperature exceeds the preset level, the contact is actuated. If there is a break in the measuring system (leakage), the circuit remains open permanently.

#### Non hazardous areas

Certification CSA Certified, file LR34555 UL Listed, file 56247 EMI/RFI: to EN 55011

# **Technical data**

Ambient device range	+15 °F to +140 °F (-9 °C to +60 °C)		
Line sensing device range	+25 °F to +325 °F (-4 °C to +163 °C)		
Storage temperature	-40 °F to +140 °F (-40 °C to +60 °C)		
Accuracy	±1 % of full scale		
Vibration	10 g's 10 to 500 Hz, MIL-STD 202F		
Shock	50 g's 10 mS, MIL-STD 901C		
Capillary tube (made of stainless steel)	Length: 10 ft (3000 mm) Diameter: 1/16" (2 mm) Bending radius: 5/8" (15 mm) Operating temperature range: +15 °F to 325 °F (-9 °C to +163 °C)		
Sensor (made of 316L stainless steel)	Length: 7 3/4" (197 mm) Diameter: 5/16" (8 mm) Operating temperature range: +15 °F to +325 °F (-9 °C to +163 °C)		
Weight	1.9 lbs. (0.9 kg)		
Protection class	NEMA 4X and IP 65		
Terminals	3 pole terminal block, terminal screws 4/2.5 mm <sup>2</sup> AWG 10-14		
Cable entries	3/4" NPT female conduit connection		
Enclosure	Aluminum die-casting, green polyurethane coated, other exposed parts: stainless steel		
Electrical data			
Rated voltage	AC 125/250/480 V, 50/60 Hz		
Switch rating	22 A at AC 120/250/480 V		
Contact	1 SPDT, prewired snap action 100,000 switching cycles		



Authorized distributor	Ordering information		
	Designation	Temperature Range	Order no.
	BMC-1A Ambient sense switch	+15 °F to +140 °F (-9 °C to +60 °C)	710110
	BMC-1L Line sensing switch	+25 °F to +325 °F (-4 °C to 163 °C)	710111

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