

QAP22

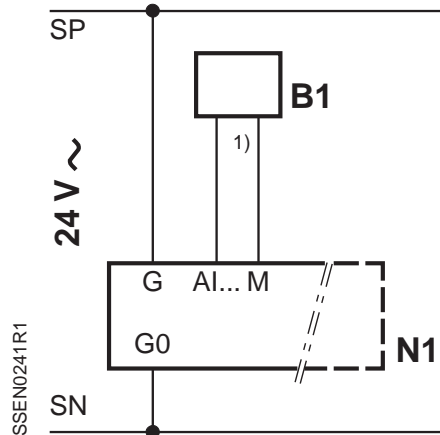
Cable Temperature Sensor for Temperature Measurement



Application	<p>The cable temperature sensor is used in HVAC applications to measure room temperature or to provide changeover from heating to cooling, or vice versa.</p> <p>It is designed for integration in terminal units such as fan coil or induction units.</p> <p>The sensor can be installed either by the manufacturer of the terminal unit or on site.</p>
Product Number	QAP22
Ordering	<p>The cable temperature sensor is supplied without any mounting accessories. These must be ordered separately.</p> <p>When ordering, specify quantity, product number, and description of cable temperature sensor.</p>
Principle of Operation	<p>The sensor's nickel sensing element measures the air or medium temperature.</p> <p>The resistance of the sensing element changes as a function of the ambient temperature.</p>
Mechanical Design	<p>The sensing element is a nickel resistor. It is encapsulated in a metal sleeve so that it is mechanically and electrically protected. The connecting cable inside the metal sleeve is provided with a tension relief. The end of the cable is prepared for wiring.</p>
Engineering	<p>The data sheets of the units to which the sensor is wired provide information on wiring details. The permissible line lengths must be observed.</p>
Installation	<p>The sensor must be able to measure the air or medium temperature as accurately as possible. For this reason, it should be installed in the location specified by the manufacturer of the terminal unit. If there is no such specification, it must be installed in the return airflow of the induction or fan coil units where it measures the temperature of the room air that is drawn in. It should be installed as high as possible to minimize the floor effect.</p>

Specifications	Range of use	-13°F to 203°F (-25°C to 95°C)
	Sensing element	LG Ni1000 at 32°F (0°C)
	Permissible ambient temperature	
Material (Normal)	Cable	-13°F to 203°F (-25°C to 95°C)
	Intermittent (two hours/day)	-13°F to 230°F (-25°C to 110°C)
	Permissible ambient humidity	95% rh 30 days
	Permissible line lengths	See <i>Engineering</i>
	Connecting cable	PVC, 20 AWG
	Length	6.7 ft (2 m)
	Weight	Approx. 0.13 lb (0.06 kg)

Wiring

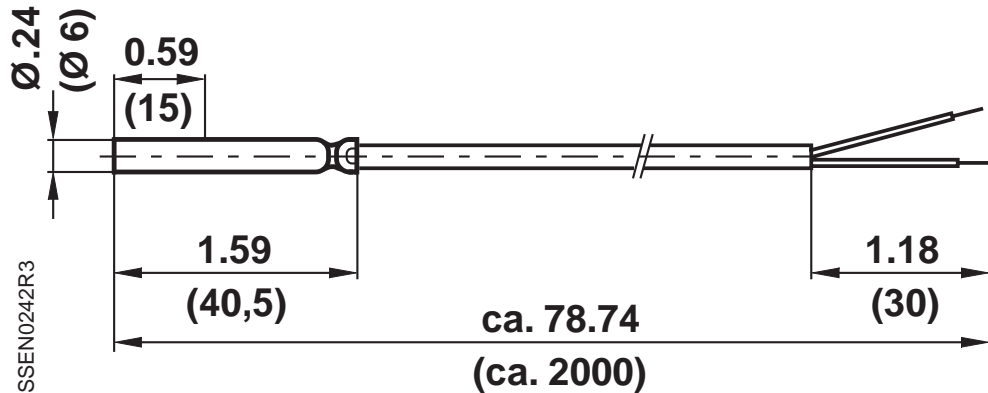


Legend:

- 1) Two-wire connection (interchangeable, no polarity)
- B1 Cable temperature sensor QAP22

Figure 1. Connection Terminals.

Dimensions



NOTE: The active length of sensing element is 0.59 inches (22.9 mm).

Figure 2. QAP22 Dimensions in Inches (Millimeters).

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