

A11 Series Low Temperature Cutout Control

Application

A11 Series low temperature cutout controls are available with SPDT or SPST contact action. Typical applications include the sensing of low temperature conditions to avoid overcooling or icing of hydronic coils, cooling coils and liquid handling pipes. The controls are compact and sturdy, and have an adjustable temperature set point range with a fixed differential. The range adjustment screw is accessible at the bottom of the control, and at the top of the control when the cover is removed.

All Series A11 temperature controls are designed for use *only* as operating controls. Where an operating control failure would result in personal injury and/or loss of property,

it is the responsibility of the installer to add devices (safety, limit controls) or systems (alarm, supervisory systems) that protect against, or warn of, control failure.

Features

- Precision “repeat” accuracy. Unaffected by ambient temperature at the control diaphragm cup and 4 ft. (1.2 m) capillary (20 ft. [6.1 m] sensing bulb must be in the controlled area). Direct reading scale is calibrated at Johnson Controls’, Goshen, Indiana plant (800 ft. [244 m] above sea level) at 35°F (2°C). Critical installations at higher altitudes should be set “higher” on the basis of 1F° (0.56C°) for each 1800 ft. (549 m) of elevation.

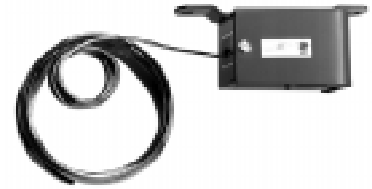


Fig. 1 -- A11B-1 Low Temperature Cutout Control.

- “Trip-free” manual reset (A11A and A11D) -- reset lever must be pressed and released before operation will resume.
- Precision snap-acting contacts in a dust protected enclosure.
- Direct reading scale. Easy to adjust set point. Adjustment can be made from the top or bottom of the control, whichever is more convenient.

Specifications

Type Number	A11A	SPST, Open Low, Manual Reset
	A11B	SPST, Open Low, Automatic Recycle
	A11D	SPDT, Manual Reset
	A11E	SPDT, Automatic Recycle
Range (Cutout)		35 to 45°F (2 to 7°C)
Differential	A11A, A11D	Temperature Must Be 12F° (6.7C°) Above Cutout Point Before Control Can Be Reset
	A11B, A11E	12F° (6.7C°)
Ambient Temperature	Minimum	0°F (-18°C)
	Maximum	140°F (60°C)
Maximum Temperature at Bulb		250°F (121°C)
Sensing Element		1/8" x 20' (3.2 mm x 6.1 m)
Capillary Length		4 Ft. (1.2 m)
Switch		Snap-Acting Contacts In Dust Protected Enclosure
Material	Case	.062" (1.6 mm) Cold Rolled Steel
	Cover	.032" (0.8 mm) Cold Rolled Steel
Finish		Gray Enamel
Conduit Opening		.875" (22 mm) Hole For 1/2" Conduit
Mounting Bracket		Standard On All Controls
Shipping Weight	Individual Pack	1.8 lb (.8 kg)
	Overpack Of 20 Units	38 lb (17 kg)

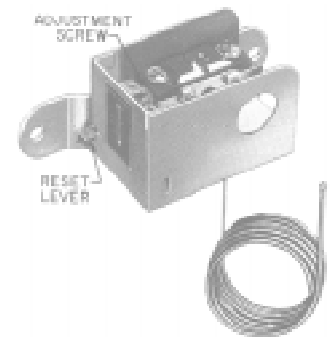


Fig 2 -- Interior of Low Temperature Cutout Control with Manual reset. The adjustment screw is slotted on both ends for either top or bottom adjustment.

General Description

The controls are compact and sturdy. They have an adjustable range with a fixed differential. The range adjustment screw is accessible at the bottom of the control or at the top with the cover removed. A factory set low temperature stop is available when specified.

Repairs and Replacement

Field repairs must not be made. For a replacement control contact the nearest Johnson Controls wholesaler.

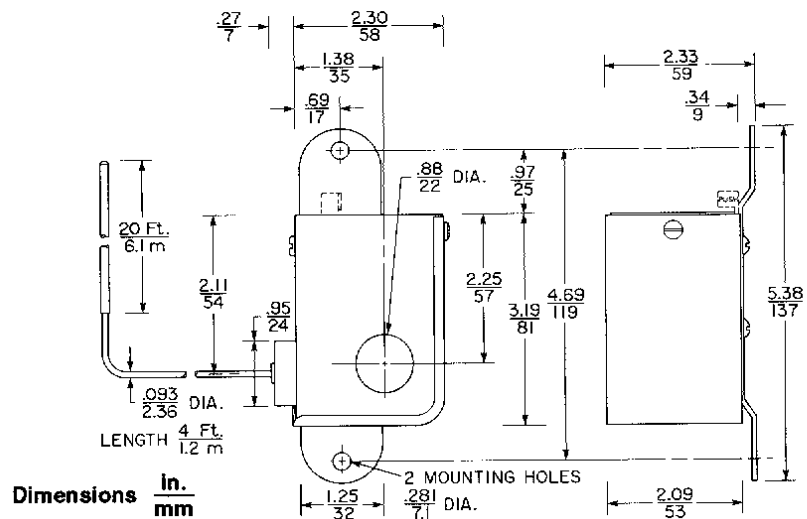
Ordering Information

1. Specify Product Number.
2. Specify low temperature cutout stop setting, if required.

Electrical Rating

Motor Ratings	120 V	208 V	240 V
AC Full Load Amp	16.0	9.2	8.0
AC Locked Rotor Amp	96.0	55.2	48.0
Non-Inductive Amp	16.0	9.2	8.0

Pilot Duty — 125 VA, 24 to 277 VAC



Performance specifications appearing herein are nominal and are subject to accepted manufacturing tolerances and application variables.

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CONTROLS**

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