

THERMOSTATS & CONTROLLERS

LOW & HIGH TEMPERATURE LIMIT CONTROLS A70 SERIES



A70HA-1



DESCRIPTION

The Johnson Controls A70 Series heavy-duty temperature-limit controls incorporate a vapor charged sensing element. A70G, A70H, and A70K have a four-wire, two-circuit contact block that contains two isolated sets of contacts. The contacts are designed to transfer at set point so that when the main contact opens, the auxiliary contact closes simultaneously. Typical applications include shutdown of a ventilation system and BAS alarm indication upon low or high temperature.

FEATURES

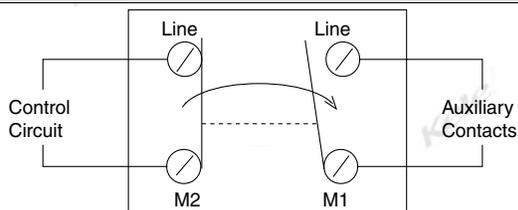
- Automatic or manual reset models
- Long-life, snap-acting contacts
- Easy set point adjust
- One-year warranty

SPECIFICATIONS

MODEL	SWITCH ACTION (Main contacts) LINE-M2	TEMP RANGE °F (°C)	RESET °F (°C)	BULB/ CAPILLARY	MAX BULB TEMP °F (°C)	RANGE ADJUSTER	ELECTRICAL RATING								
							MOTOR RATINGS (VAC)	LINE-M2 (Main)				LINE-M1 (Auxiliary)			
								120	208	240	277	120	208	240	277
A70GA-1* Low Limit	Open Low	15 to 55* (-10 to 13)	Auto 5 (2.8)	20' of 1/8" (6m of 0.32 cm) OD tubing	400 (260)	Screwdriver Slot	AC Full Load Amp	16.0	9.2	8.0	-	6.0	3.3	3.0	-
A70HA-1* Low Limit	Open Low	15 to 55* (-10 to 13)	Manual Reset	20' of 1/8" (6m of 0.32 cm) OD tubing	400 (260)	Screwdriver Slot	AC Non- Inductive Amp	16.0	9.2	8.0	7.2	6.0	6.0	6.0	6.0
A70HA-2 Low Limit	Open Low	35 to 80 (1.7 to 27)	Manual Reset	3/8" x 3" (0.95 x 7.6 cm) 6' (1.9m) cap	250 (121)	Screwdriver Slot	Pilot Duty	125 VA, 24-600 VAC 57.5 VA, 120-300 VDC							
A70KA-1 High Limit	Open High	100 to 170 (38 to 77)	Manual Reset	3/8" x 10" (0.95 x 25.4 cm) 6' (1.9m) cap	240 (116)	Screwdriver Slot	Approvals	UL Listed File #SA516							

*The low cut-out stop is set and sealed at 35°F (1.6°C). The control responds to the lowest temperature along any 1' (30.5 cm) section of the 20' (6m) element.

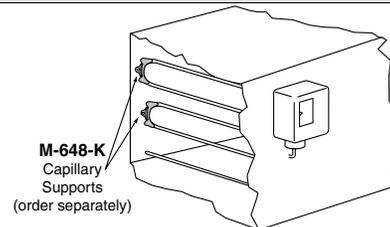
WIRING



A70 Series

Low Limit - Action on temperature decrease
High Limit - Action on temperature increase

INSTALLATION



Mount sensor horizontally for proper measurement. Typically mounted downstream of a coil with capillary exposed to all areas likely to encounter low or high temperatures as required.

ORDERING INFORMATION

MODEL
A70GA-1
A70HA-1
A70HA-2
A70KA-1

DESCRIPTION

Low-limit temperature control, automatic reset, 20' (6m) element
Low-limit temperature control, manual reset, 20' (6m) element
Low-limit temperature control, manual reset, 3" (7.6 cm) element, 6' (1.9m) capillary
High-limit temperature control, manual reset, 10" (25.4 cm) element, 6' (1.9m) capillary

RELATED PRODUCTS

CC-1G-K
ES1051
M-648-K

Plastic capillary and sensor holder mounting clip
Freeze spray, 8 fl oz
Copper-clad capillary mounting clip