# A70GA, A70HA, and A70KA Temperature Controls Catalog Page

2026-01-07

LIT-1927140

## Description

The A70GA, A70HA, and A70KA temperature controls have a four-wire, two-circuit contact block that contains two isolated sets of contacts.The control incorporates a vapor-charged sensing element.

When the main contact opens, the auxiliary contact closes.

Refer to the *A70 and A72 Series Temperature Controls Product Bulletin (LIT-125155)* for important product application information.

**Figure 1: A70GA-1 Temperature Control**



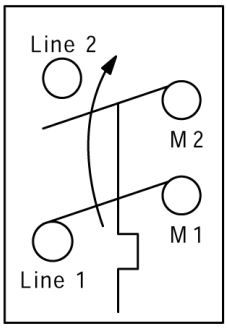

## Features

- Long-life snap-acting contacts
- Automatic or manual reset models

## Applications

A standard application is to energize an indicator light after a low temperature cutout on a ventilation system.

**Figure 2: Action on a temperature increase**




## Selection charts

**Note:**

- For models that have a set and sealed cutout stop, you cannot lower the temperature cutout stop. The control only responds to the lowest temperature along any 14 in. to 16 in. section of the entire 20 ft element.
- All models feature a screwdriver slot range adjuster.
- If a model does not include a mounting bracket, use the following brackets:
  - Standard mounting to a vertical surface: Part Number 271-350.
  - Mounting to a horizontal surface with an L bracket: Part Number 271-51.
- The M-648-K bulb holder is available separately to mount the bulb in place.



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### Table 1: A70 temperature control selection chart

| Product code number | Switch action | | Range °F (°C) | Differential °F (°C) | Bulb and capillary | Maximum bulb temperature °F (°C) | Includes a mounting bracket |
|---|---|---|---|---|---|---|---|
| | Main contacts | Auxiliary contacts | | | | | |
| A70GA-1C<br>ⓘ **Note:** The low cutout stop is set and sealed at 35°F (1.6°C). | Open low | Close low | 15 to 55 (-9.4 to 12.8) | 5 (2.8), fixed | 20 ft (6 m) of 1/8 in. (3.2 mm) O.D. tubing | 400 (204.4) | No |
| A70GA-2C | | | 35 to 80 (1.7 to 26.7) | 3 to 30 (-16.1 to -1.1), adjustable | Capillary: 6 ft x 0.093 in. (1.8 m x 2.36 mm)<br>Bulb: 3/8 in. x 3 in (9.50 mm x 76.20 mm) | 130 (54.4) | No |
| A70HA-1C<br>ⓘ **Note:** The low cutout stop is set and sealed at 35°F (1.6°C). | | | 15 to 55 (-9.4 to 12.8) | 5 (2.8), manual reset | 20 ft (6 m) of 1/8 in. (3.2 mm) O.D. tubing | 400 (204.4) | Yes |
| A70HA-2C | | | 35 to 80 (1.7 to 26.7) | 6 (3.3), manual reset | Capillary: 6 ft x 0.093 in. (1.8 m x 2.36 mm)<br>Bulb: 3/8 in. x 3 in (9.50 mm x 76.20 mm) | 130 (54.4) | No |
| A70HA-14C | | | 15 to 55 (-9.4 to 12.8) | 5 (2.8), manual reset | 20 ft (6 m) of 1/8 in. (3.2 mm) O.D. tubing | 400 (204.4) | Yes |
| A70HA-16C | | | 15 to 55 (-9.4 to 12.8) | 5 (2.8), manual reset | 40 ft (12.2 m) of 1/8 in. (3.2 mm) O.D. tubing | 400 (204.4) | Yes |
| A70KA-1C | Open high | Close high | 100 to 170 (37.8 to 76.7) | 8 (4.4), manual reset | Capillary: 6 ft x 1/8 in. (1.8 m x 6.35 mm)<br>Bulb: 3/8 in. x 10 in (9.50 mm x 254.00 mm) | 240 (116) | No |



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## Electrical ratings

**Table 2: A70GA, A70HA, and A70KA main and auxiliary contact**

| VAC 60 Hz | cULus | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Line-M2 (main contact) | | | | | | Line-M1 (auxiliary contacts) | | | |
| | 120 VAC | 208 VAC | 240 VAC | 277 VAC | 480 VAC | 600 VAC | 120 VAC | 208 VAC | 240 VAC | 277 VAC |
| Motor full load amperes | 16.0 | 9.2 | 8.0 | — | 5.0 | 4.8 | 6.0 | 3.3 | 3.0 | — |
| Motor locked rotor amperes | 96.0 | 55.2 | 48.0 | — | 30.0 | 28.8 | 36.0 | 19.8 | 18.0 | — |
| AC non-inductive amperes | 16.0 | 9.2 | 8.0 | 7.2 | — | — | 6.0 | 6.0 | 6.0 | 6.0 |
| Pilot duty | 125 VA at 24 VAC to 600 VAC.<br>20 VA at 120 VDC to 300 VDC. | | | | | | | | | |

## Conformity declaration information

**Table 3: Conformity declaration information**

| Information | Description |
|---|---|
| Purpose of control | Temperature operating control |
| Method of mounting control | Surface mounted. Permanently attached through usage of a mounting bracket. |
| Method of earthing control | Wiring binding screw terminal |
| Type 1 or Type 2 action | Type 2.B (Micro-disconnection) for all model ratings other than 600 V, except as specified below. |
| | Type 2.C (Micro-interruption) for all models at 600 V rating. |
| | Type 2.C for all auxiliary (L-M1) SPST N.O. ratings. |
| Operating value | Setpoint value |
| External pollution situation | Pollution degree 3 |
| Rated impulse voltage | 6,000 V |
| Deviation and drift | Deviation and drift do not exceed 5% |

## Product warranty

This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.

## Single point of contact

| APAC | EU | UK | NA/SA |
|---|---|---|---|
| JOHNSON CONTROLS<br>C/O CONTROLS<br>PRODUCT MANAGEMENT<br>NO. 32 CHANGJIANG RD<br>NEW DISTRICT<br>WUXI JIANGSU PROVINCE<br>214028<br>CHINA | JOHNSON CONTROLS<br>VOLTAWEG 20<br>6101 XK ECHT<br>THE NETHERLANDS | JOHNSON CONTROLS<br>TYCO PARK<br>GRIMSHAW LANE<br>MANCHESTER<br>M40 2WL<br>UNITED KINGDOM | JOHNSON CONTROLS<br>5757 N GREEN BAY AVE.<br>GLENDALE, WI 53209<br>USA |

## Contact information

Contact your local Johnson Controls representative:
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