Honeywell

201052A,B
Auxiliary Switch

INSTALLATION INSTRUCTIONS

APPLICATION

The 201052A or B Auxiliary Switch is used in conjunction with the ML6161/ML7161 Direct Coupled Actuator. It allows for control of equipment external to the actuator (for example, electric reheat coils and fan) at an adjustable point in the actuator stroke (from 0° to 90°).

Models:
201052A: Contains one auxiliary switch.
201052B: Contains two auxiliary switches.

Electrical Ratings:
50 VA, pilot duty at 24 Vac, selective not simultaneous.

Switching:
Single-pole, double-throw (spdt) micro switches.

Switch Differential:
Three angular degrees maximum.

Approvals:
Underwriters Laboratories Inc. Recognized: File No. E4436, Guide No. XAPX.

Dimensions:
See Fig. 1.

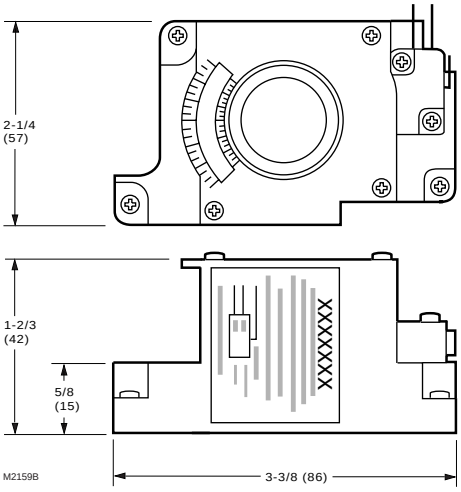

Fig. 1. Dimension drawing in in. (mm).

INSTALLATION

When Installing this Product...

1. Read instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check ratings and descriptions given in specifications to make sure product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After installation is complete, check out product operation as provided in these instructions.

CAUTION
Electrical Shock or Equipment Damage Hazard. Can shock individuals or short equipment circuitry.
Disconnect power supply before installation. Actuators with auxiliary switches can have more than one disconnect.

CAUTION
Actuator Damage Hazard.
Turning motor output hub by hand or wrench can damage internal gears.
Ensure declutch button is depressed while manually turning hub.

1. Determine desired switching action (if switch is to energize during clockwise ↷ or counterclockwise ↶ rotation). With switch cam as shown in Fig. 2, the normally closed contact opens during counterclockwise ↶ rotation and the normally open switch closes.

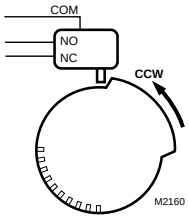

Fig. 2. Switching configuration for counterclockwise rotation (top view).

Conversely, with the switch cam as shown in Fig. 3, the normally closed contact opens during clockwise rotation and the normally open switch closes.

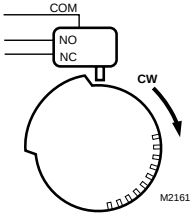

Fig. 3. Switching configuration for clockwise rotation (top view).

2. Align the switch hub with the set screws on the actuator. See Fig. 4. Mount the switch on the actuator and tighten the three captive screws.
3. Engage the declutch and rotate the hub to the desired position for switch operation.

NOTE: When installed, the angular position indicator on the switch face moves from 90° to 0° during counterclockwise motion and from 0° to 90° during clockwise motion.

4. Disengage declutch.
5. With a screwdriver, move cam inside switch assembly to the appropriate position. Remember, the direction of travel of the cam for switching purposes (see Fig. 2 and 3). Monitor the switch closure with an ohmmeter for a continuity check. See Table 1.

IMPORTANT

Make certain that the switch activates at the desired degree of stroke.

NOTES:

— For two switch models, cams align with their respective switches and are each individually set using the same procedure described in the Installation section.

— Switches may also be preset prior to installation on the actuator if the angular switch position is known.

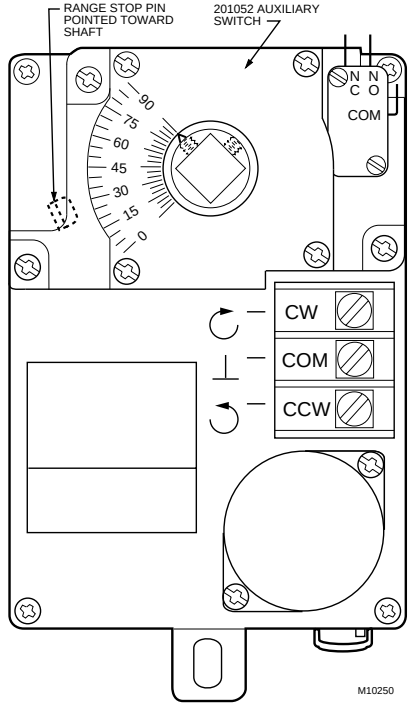

Fig. 4. ML6161 DCA with 201052A Auxiliary Switch.

Table 1. Proper continuity measurements.

	Normally Open Contacts	Normally Closed Contacts
Switch Activated	Zero ohms	Infinite ohms
Switch Not Activated	Infinite ohms	Zero ohms

Honeywell

Home and Building Control
Honeywell Inc.

Home and Building Control
Honeywell Limited-Honeywell Limitée

M2H 3N7

Helping You Control Your World®

63-2218—1 B.B. Rev. 10-97 Printed in Mexico