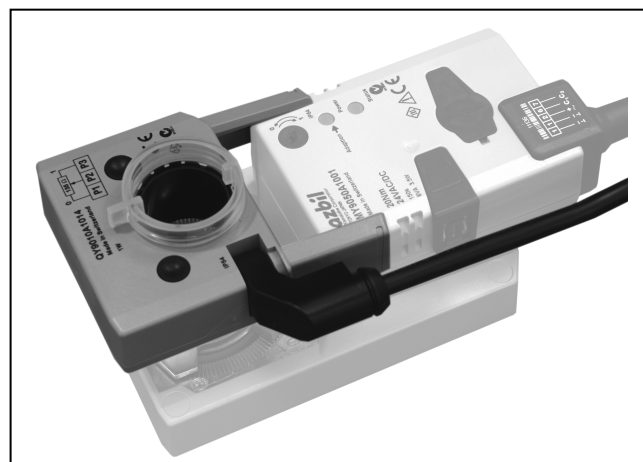


Auxiliary Potentiometer

General

Model QY9010A1014 auxiliary potentiometer is a nominal 135 Ω variable resistor. Combined with Model MY6050A1001/MY9050A1001 direct coupled damper actuator, Model QY9010A1014 outputs feedback resistance to a proportional controller or to a position indicator.



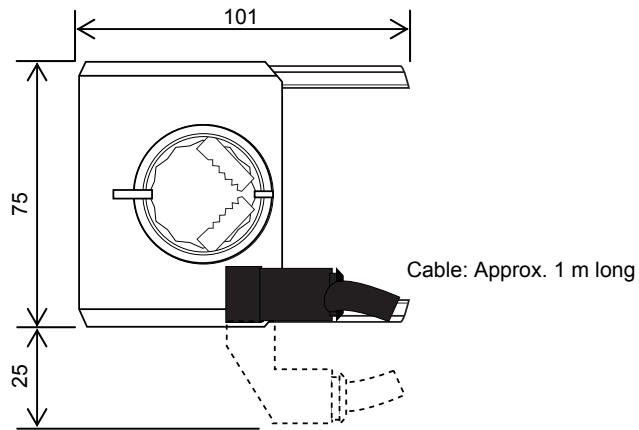
Specifications

Item	Specification
Model number	QY9010A1014
Resistance	Nominal 135 Ω (140 $\Omega \pm 5\%$)
Power consumption	1 W
Hysteresis	$\pm 5\%$
Linearity	$\pm 2\%$
Resolution	Min. 1 %
Residual resistance	Max. 5 % (in fully open / fully closed position)
Ambient operating conditions	- 20 °C to 50 °C, 95 %RH or less (non-condensing)
Transport/storage conditions	- 20 °C to 60 °C, 95 %RH or less (non-condensing)
Enclosure rating	Dust-proof and splash-proof equivalent to IEC IP54
Cable	0.75 mm ² \times 3-cores, 1 m long
Material / Color	PC / Silver gray
Weight	Approx. 130 g

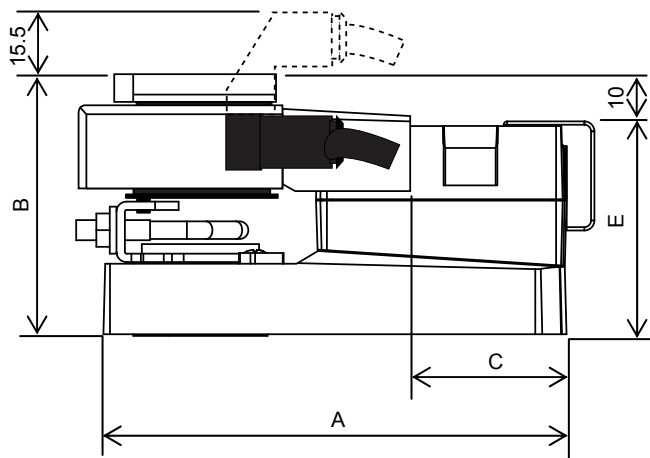
IMPORTANT:

- For Model R30/R31/R35/R36/SDC40 single loop controller (Model with MFB* input) connected to Model QY9010A1014 (assembled with Model MY6050A1001/MY9050A1001), automatic setting function of feedback potentiometer is not available. Manually perform the potentiometer setting. * MFB: Motor feedback
- For the controller with time-limit feedback connected to Model QY9010A1014 (assembled with Model MY6050A1001/MY9050A1001), error may be detected. In such a case, reset longer time limit.

Dimensions



* Note:
Cable conduit can be rotated 90°. The conduit rotated 90° upward is 25 mm high.



Dimensions assembled with: Damper actuator
Model MY6050A1001/MY9050A1001

Assembled with	A	B	C	E
Model MY6050A1001	139	79.5	51	62
Model MY9050A1001				

Unit: mm

Figure 1. Dimensions (mm)

Safety Instructions

Please read instructions carefully and use the product as specified in this manual. Be sure to keep this manual near by for ready reference.

Usage Restrictions

This product is targeted for general air conditioning. Do not use this product in a situation where human life may be affected. If this product is used in a clean room or a place where reliability or control accuracy is particularly required, please contact Azbil Corporation's sales representative. Azbil Corporation will not bear any responsibility for the results produced by the operators.

⚠ CAUTION

- ❗ Installation and wiring must be performed by qualified personnel in accordance with all applicable safety standards.
- ❗ This product must be operated under the operating conditions (power, temperature, humidity, vibration, shock, installation position, atmospheric condition, etc) specified in this manual to prevent equipment damages.
- ❗ This product must be operated within its rated operating ranges specified in this manual. Failure to comply will cause equipment damages.

Installation

- 1) Lift and detach the position indicator ring from the damper actuator.
- 2) Engage the pins of the auxiliary potentiometer to the grooves of the damper actuator.
- 3) Push the auxiliary potentiometer down to the damper actuator.
- 4) Press the tabs provided on the bilateral sides of the auxiliary potentiometer until they click.
- 5) Confirm that the auxiliary potentiometer is completely fixed onto the damper actuator.

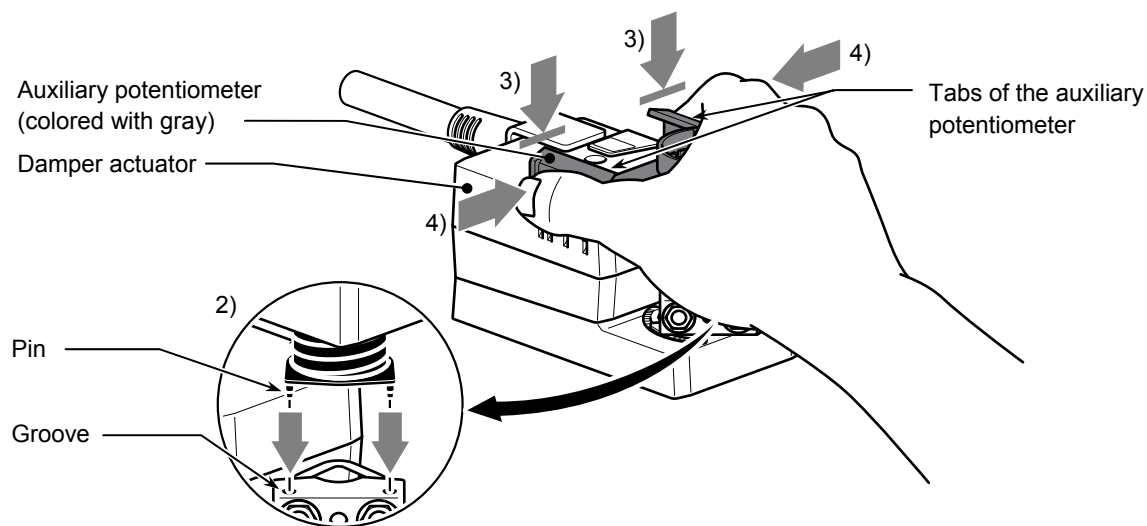


Figure 2. Installation

Removal

Carefully remove the potentiometer so that the actuator body does not get damaged.

- 1) Using a tool such as a slotted screw driver, pry and detach the tabs of the auxiliary potentiometer, as shown in the Fig. 3.

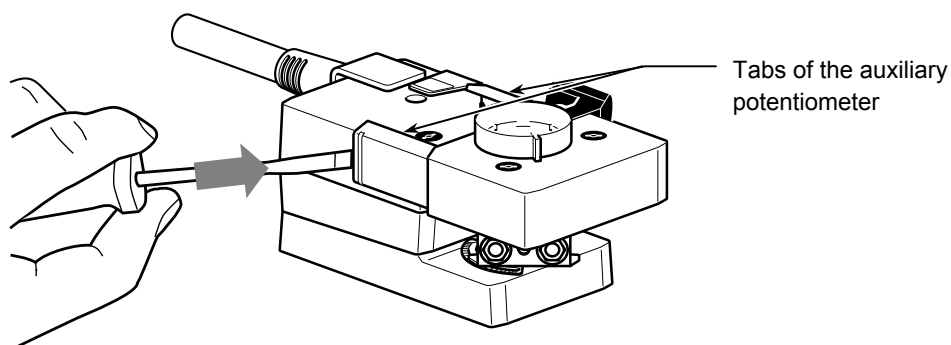


Figure 3. Detaching the tabs

- 2) Lift up and remove the auxiliary potentiometer.

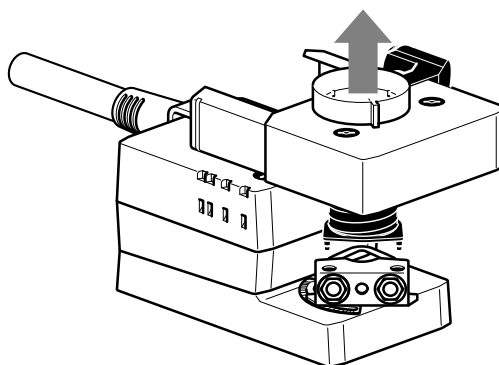


Figure 4. Removing the auxiliary potentiometer

Wires Connection

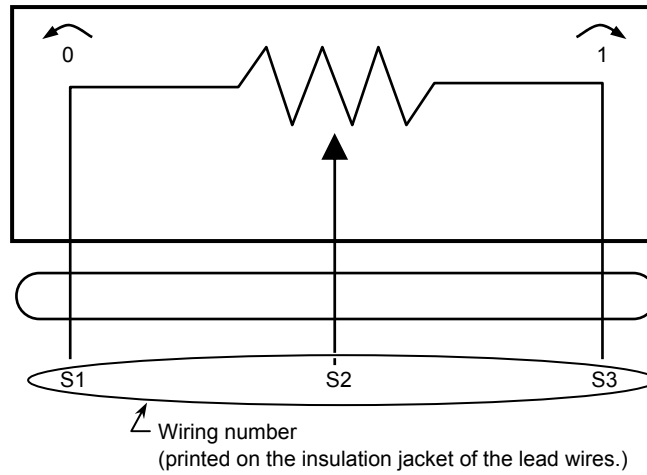


Figure 5. Wires connection

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Specifications are subject to change without notice.

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