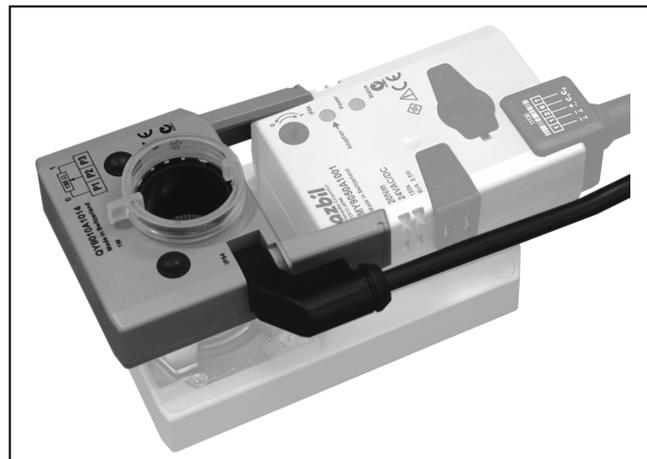


## Auxiliary Potentiometer

### General

Model QY9010A1014 auxiliary potentiometer is a nominal 135  $\Omega$  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.



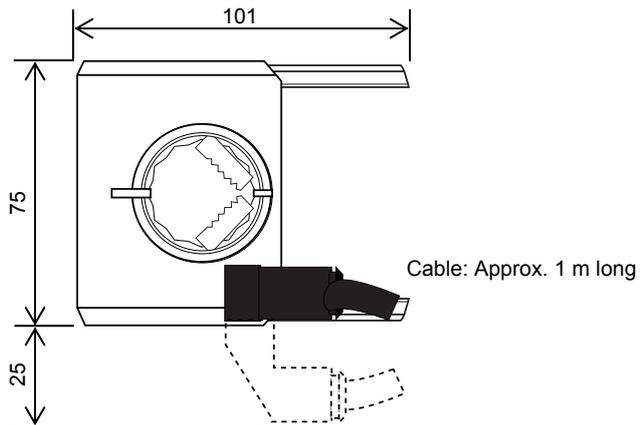
### Specifications

Item	Specification
Model number	QY9010A1014
Resistance	Nominal 135 $\Omega$ (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 $^{\circ}$ C to 50 $^{\circ}$ C, 95 %RH or less (non-condensing)
Transport/storage conditions	- 20 $^{\circ}$ C to 60 $^{\circ}$ C, 95 %RH or less (non-condensing)
Enclosure rating	Dust-proof and splash-proof equivalent to IEC IP54
Cable	0.75 mm <sup>2</sup> $\times$ 3-cores, 1 m long
Material / Color	PC / Silver gray
Weight	Approx. 130 g

#### IMPORTANT:

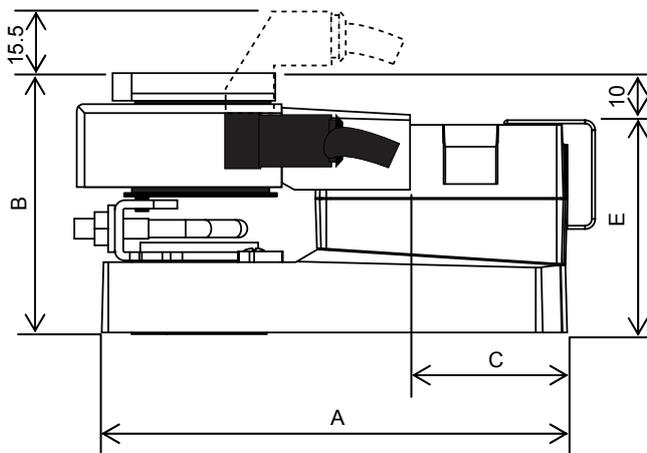
- For Model R30/R31/R35/R36/SDC40 single loop controller (Model with MFB\* input) connected to Model QY9010A1014 (assembled with Model MY6050A1001/MY9050A1001), automatic setting function of feedback potentiometer is not available. Manually perform the potentiometer setting. \* MFB: Motor feedback
- 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.

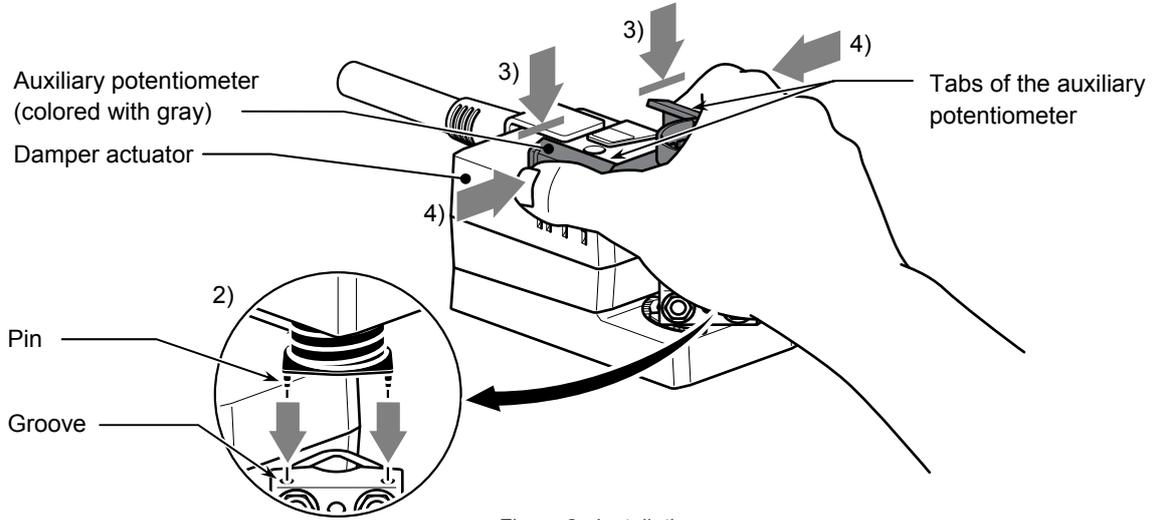


Figure 2. Installation

**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.

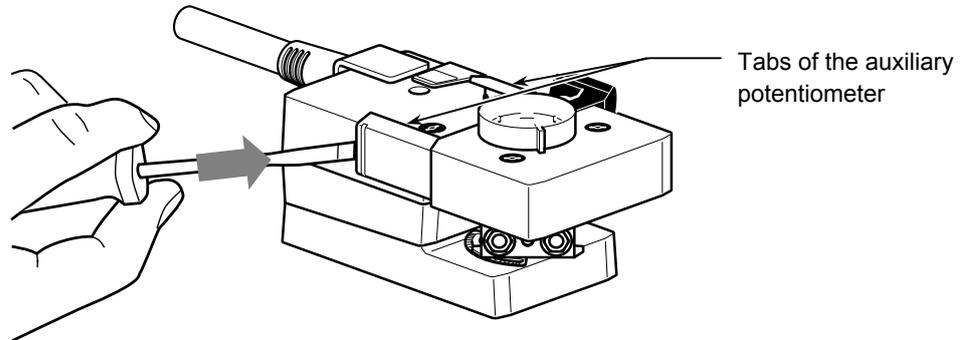


Figure 3. Detaching the tabs

- 2) Lift up and remove the auxiliary potentiometer.

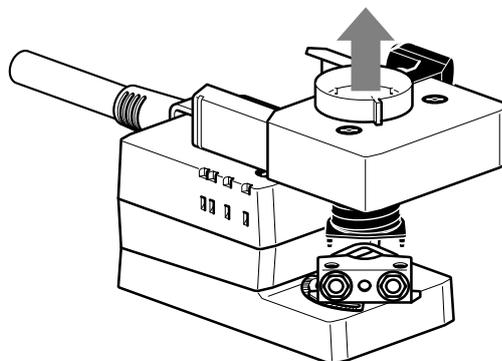


Figure 4. Removing the auxiliary potentiometer

Wires Connection

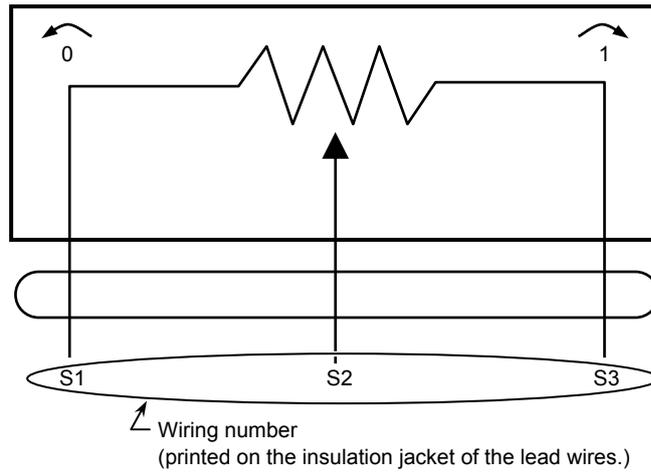


Figure 5. Wires connection

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*Specifications are subject to change without notice.*

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