

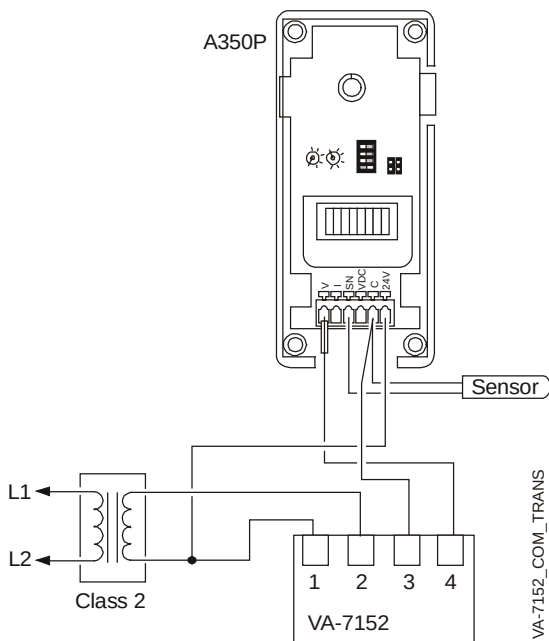
APPLICATION NOTE

A350P Proportional Temperature Control of Johnson Controls® VA-7152 and VA-8052 Valve Actuators

IMPORTANT: Use the A350P temperature control only as an operating control. Where failure or malfunction of the A350P control could lead to personal injury or property damage to the controlled equipment or other property, additional precautions must be designed into the control system. Incorporate and maintain other devices such as supervisory or alarm systems or safety or limit controls intended to warn of, or protect against, failure or malfunction of the A350P temperature control.

Application

The A350P proportional temperature control can control VA-7152 and VA-8052 series valve actuators. Applications can use a common 24 VAC power supply (Figure 1 and Figure 2) or a Y350 power module and a separate power supply transformer for the actuator (Figure 3 and Figure 4).



Note: Terminals 2 and 3 are connected internally as common on VA-7152 series actuators.

Figure 1: Wiring an A350P Controller to a VA-7152 Valve Actuator Using a Common Transformer to Power the Application

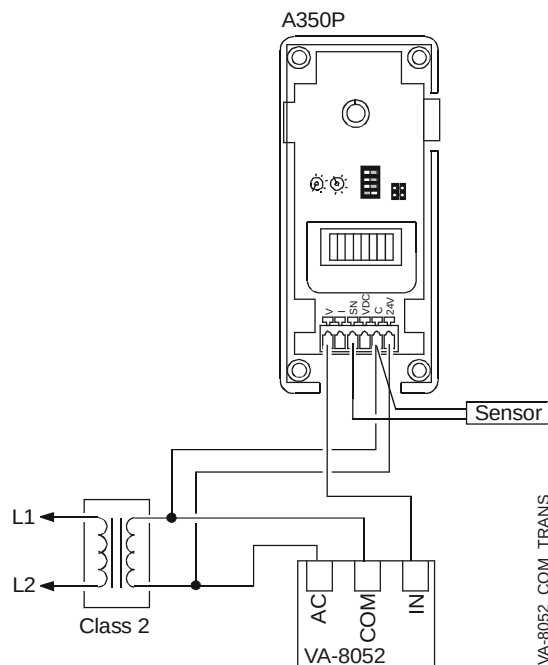


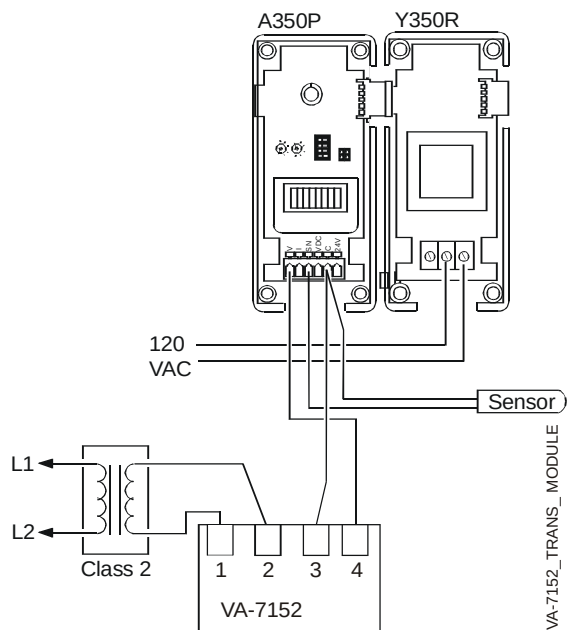
Figure 2: Wiring an A350P Controller to a VA-8052 Valve Actuator Using a Common Transformer to Power the Application

Table 1: Johnson Controls Actuator Terminals Wired to a Common Power Supply

A350P Control Terminal	VA-7152 Terminal	VA-8052 Terminal
C	2, 3	COM
24V	1	AC
V	4	IN

Note: Terminals 2 and 3 are connected internally as common on VA-7152 series actuators.

IMPORTANT: Always maintain polarity when wiring A350P controls to VA-7152 and VA-8052 actuators. Failure to maintain polarity can result in damage to the A350P control and the actuators.



Note: Terminals 2 and 3 are connected internally as common on VA-7152 series actuators.

Figure 3: Wiring an A350P Controller and Y350R Power Module to a VA-7152 Valve Actuator with a Separate Power Supply Transformer

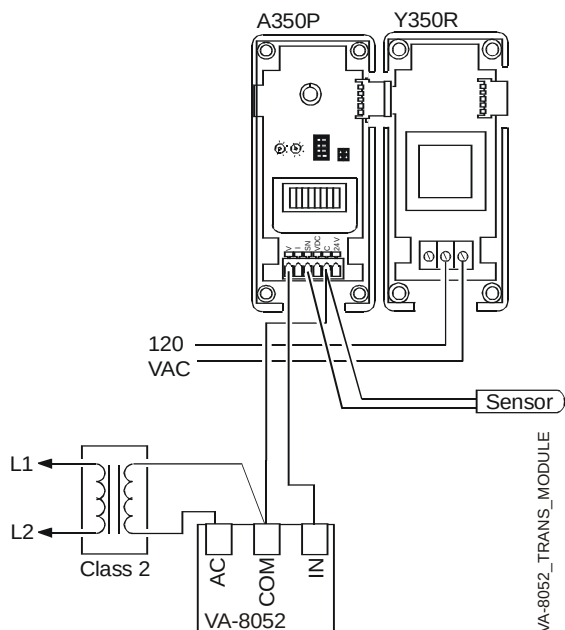


Figure 4: Wiring an A350P Controller and Y350R Power Module to a VA-8052 Valve Actuator with a Separate Power Supply Transformer

Table 2: Johnson Controls Actuator Terminals Wired to Separate Power Supply

A350P Terminal	VA-7152 Terminal	VA-8052 Terminal
C	2, 3	COM
V	4	IN

Note: Terminals 2 and 3 are connected internally as common on VA-7152 series actuators.

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