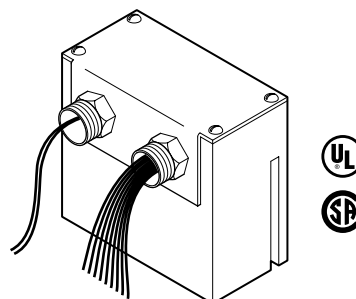


## 1 to 15 Vdc Input Electronic Actuator Drive

The CP-8301-XXX Series electronic actuator drive is designed to process a variable 1 to 15 Vdc signal from a controller to provide proportional control of an electric gear train actuator.

### Features:

- Mounts directly onto Siebe proportional, electric, gear train actuators
- Fixed 1 to 15 Vdc operating range.
- 24, 120, and 240 Vac models available.
- Color-coded pigtail leads.



### Model Chart

#### Description.

Model No.	Power Requirement Vac, 4.8 VA 50/60 Hz (+10/-15%)	Power Supply <sup>a</sup>	Start Point of Actuator	Span
CP-8301-024	24	20 Vdc, 50 mA regulated and filtered.	Adjustable from 2 to 12 Vdc input. Factory set at 6 Vdc.	Fixed at 3 Vdc for full actuator stroke.
CP-8301-120	120			
CP-8301-240	240			

<sup>a</sup> The power supply must not be connected to +20 (red) of other supplies.

#### Typical Actuators.

Actuator Series	Power		Torque		Stroke Degrees	Spring Return				
	Vac 60 Hz	Amp	Lb-in.	N-M						
MP-2113-500	24	2.2	50	5.6	180	—				
MP-361		2.5				220	24.9	CW		
MP-371			0.5	220				24.9	CCW	
MP-381		120				0.5	50		5.6	—
MP-2150-500 <sup>a</sup>	90		24.9	CW						
MP-465 <sup>a</sup>				180	90		CCW			
MP-475 <sup>a</sup>	220		24.9				—			
MP-483 <sup>a</sup>								0.95	450	50.8
MP-485 <sup>a</sup>										
MP-486 <sup>a</sup>								120	0.9	800
MP-495 <sup>a</sup>	24	4.0	800	90						
MP-9713					120	0.9	800	90		
MP-9750 <sup>a</sup>	24	4.0	800	90						
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	24	4.0	800	90						
					120	0.9	800	90		
	24									

<sup>a</sup> Remove red and blue transformer leads from terminals 7 and 8 of actuator and tape off.

## Specifications

### Inputs

<b>Control signal</b>	Range: 1 to 15 Vdc, non-adjustable. Span: refer to Model Chart. Start point: refer to Model Chart.
<b>Power requirements</b>	Refer to Model Chart.
<b>Power supplies</b>	Refer to Model Chart.

### Outputs

<b>Connections</b>	Color coded pigtail leads.
<b>Mounting</b>	Directly to an actuator.
<b>Case</b>	Bakelite.

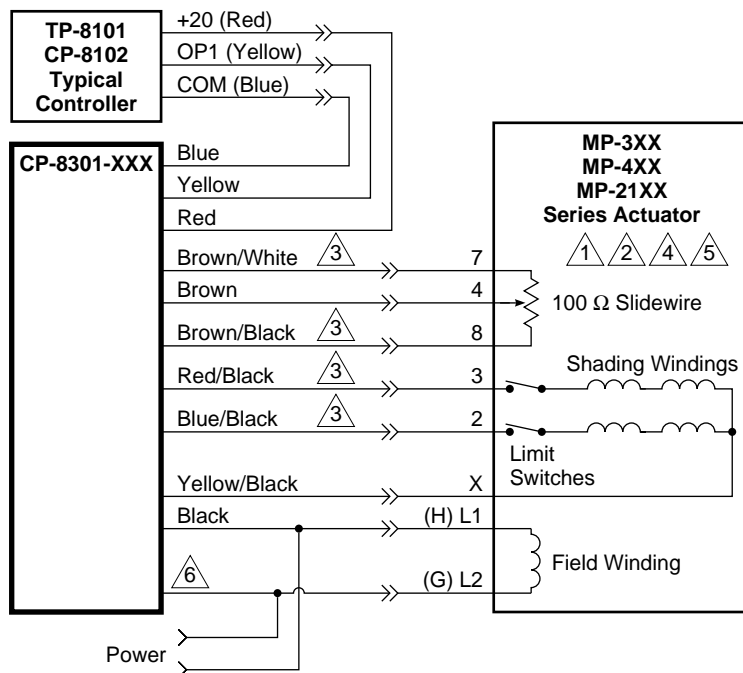
### Environment

<b>Ambient temperature limits</b>	Shipping and storage: -40 to 140° F (-40 to 60°C). Operating: -40 to 140° F (-40 to 60°C).
<b>Humidity</b>	5 to 95% RH, non-condensing.
<b>Locations</b>	NEMA Type 1.
<b>Dimensions</b>	4 H x 4 W x 3-1/4 D in.(102 x 102 x 83 mm).

## Accessories

Model No.	Description
TOOL-201	Calibration kit for System 8000.

## Typical Applications



- 1 For actuator with internal transformers. Disconnect red and blue leads from actuator terminals 7 and 8 and tape off.
- 2 Diagram Shown; Increasing input causes CW actuator rotation. All references to the direction of rotation are determined by looking at the actuator output shaft.
- 3 For CCW rotation with an increasing input signal, reverse the wires to terminals 7 & 8 and 2 & 3.
- 4 CP-8301-024 can be used with the following electric actuators: MP-361, 371, 381, 2113-500 and 9713. CP-8301-120 can be used with the following electric actuators: MP-465, 475, 483, 485, 486, 2150-500, and 9750.
- 5 CP-8301-240 can be used with 240 Vac electric actuators. (Available as a standard option.)
- 6

Part No.	Vac.	Color
CP-8301-120	120	White
CP-8301-024	24	Black/Blue
CP-8301-240	240	White/Blue

Figure 1 Typical CP-8301-xxx used on actuator with same voltage as the drive.

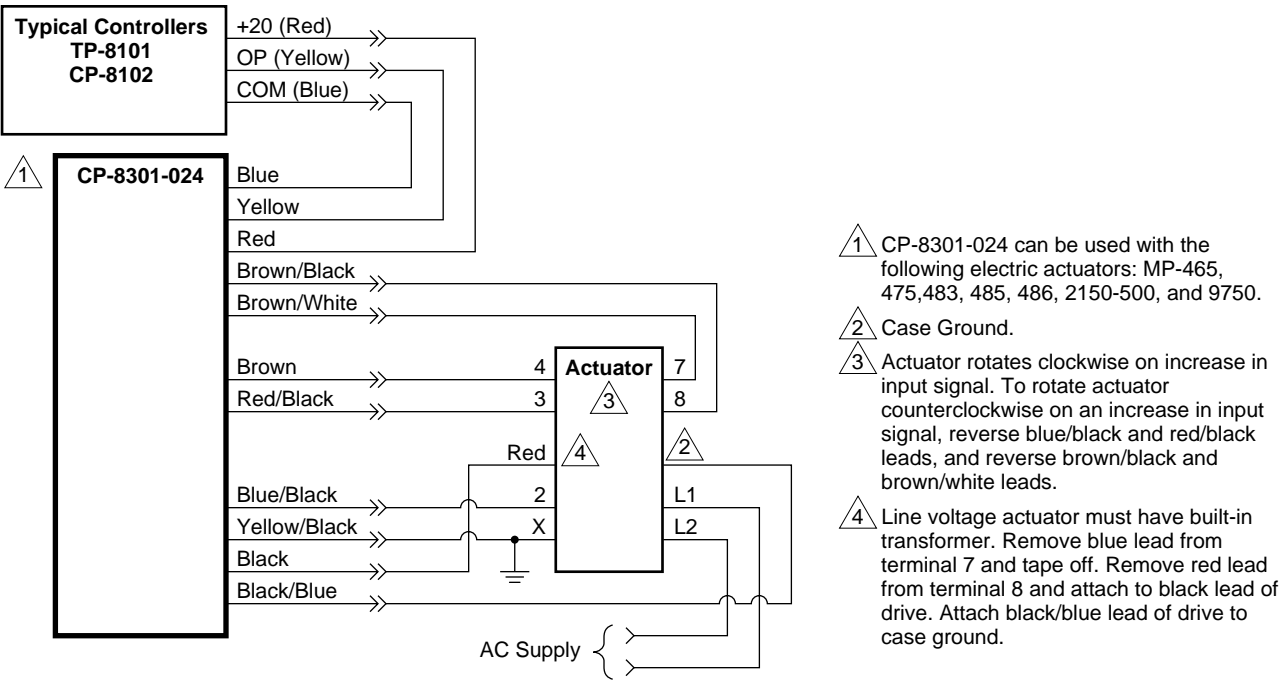


Figure 2 Typical CP-8301-024 on 120 or 240 Vac Actuators with built-in transformer.