

Actuators for Floating and Proportional Control

Product Description

MP131 actuators are used together with automatically balanced combination valve type SmartX PIBCV for 1/2" to 1-1/4". Typical applications are temperature control and permanent automatic balancing on terminal units (fan-coils, chilled ceilings, air-handling units).

Specifications

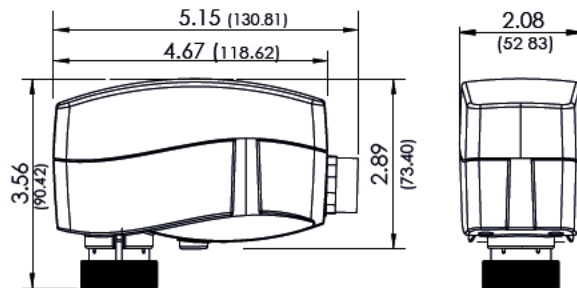
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|---|----------------------------------|
| Part Numbers | MP131-24F, MP131-24MP, MP131-24T |
| Power supply | 24 Vac +10... -15 % |
| Power consumption | 1.0 VA |
| MP131-24F/T | |
| MP131-24MP | 1.5 VA, standby 0.4 W |
| Frequency | 50/60 Hz |
| Control Input | |
| MP131-24MP | 0...10 (2-10) V Ri = 200 kΩ |
| Feedback Control input Y | 0...20 (4-20) mA Ri = 500 Ω |
| Control output X | 0...10 V Ro (min) = 38 kΩ |
| Close off force | |
| MP131-24T, MP131-24F, MP131-24MP | 130 N |
| Stroke | |
| MP131-24F, MP131-24T, MP131-24MP | 5 mm |
| Speed | |
| MP131-24F, MP131-24T, MP131-24MP | 50 hz: 24 s/mm 60 hz: 20 s/mm |
| Relative humidity | max. 95% |
| Max. medium temperature | 248 °F (120 °C) |
| Ambient temperature | 32...131 °F (0...55 °C) |
| Storage and transport temperature | -40...158 °F (-40...70 °C) |
| Protection class | IP42 |
| Weight | .66 lbs (0.3 kg) |
| Standards | |
| Heat | IEC 60068-2-2 |
| Humidity | IEC 60068-2-3 |
| Cold | IEC 60068-2-1 |
| Vibration | IEC 60068-2-6 |
| Regulatory Compliance: c-UL-us LISTED mark compliance per UL 60730-1 & -2-14 and CAN/CSA E60730-1 & -2-14. CE mark compliance per directives [2014/35/EU] LVD, [2014/30/EU] EMC, and [2011/65/EU] RoHS2. RCM mark compliance for Australia/New Zealand community. | |



Features

- Gap detection at stem up position
- 3 point version
- Force switch-off at stem down position prevents overload of actuator and valve
- No tools required for mounting
- Maintenance-free lifetime
- Low-noise operation

Dimensions (mm)



Mounting and Installation

The actuator should be mounted with the valve stem in either horizontal position or pointing upwards. The actuator is fixed to the valve body by means of a ribbed nut which requires no tools for mounting. The ribbed nut should be tightened by hand.

1. Check the valve neck. The actuator should be in stem up position (factory setting) and mounted securely on the valve body.
2. Wire the actuator according to the wiring diagram.
3. Stem movement is indicated by the Position Indicator (a small pin riding in a channel as shown in (1) below).

