



# PT280-24P Pan/Tilt

## INDOOR, LIGHT DUTY, FEEDTHROUGH

### Product Features

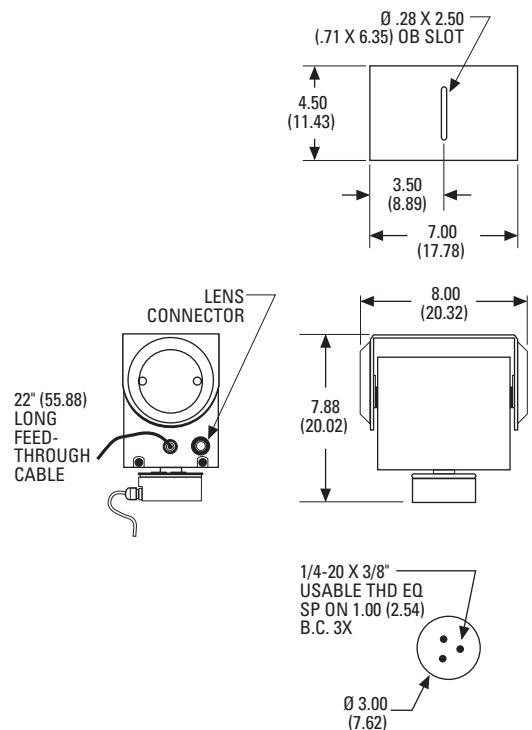
- “Mini” Pan/Tilt
- 24 VAC Operation
- Indoor Applications
- Inverted Operation
- Prewired for Zoom Lens, Camera Power and Video
- High Speed Pan Movement (12°/sec ±1°)
- Capable of Auto/Random Scan Operation when Used with Appropriate Control
- Maximum Load 15 Pounds (6.8 kg)



The **PT280-24P** is a “mini” light duty, indoor pan/tilt that is factory prewired for feedthrough of all control functions (pan/tilt, motorized zoom lens, 24 VAC camera power, and video). All connections are made at the input connector, eliminating the need for wiring harnesses made in the field. This feature greatly reduces installation time, while increasing the reliability and serviceability of the system.

The **PT280-24P** will accept a maximum load of 15 pounds (6.8 kg) and is ideally suited for use with our EH3010/EH3014 and other small enclosures.

The unit is also capable of auto/random scan operation when used with our MPTAZ24DT control.



NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.



DataFAX  
SPEC: 2324  
MANUAL: 23246

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# TECHNICAL SPECIFICATIONS

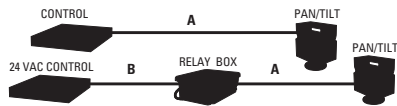
## MODEL

PT280-24P Light duty mini pan/tilt, 24 VAC

## ELECTRICAL

|                        |   |                 |
|------------------------|---|-----------------|
| Input Voltage          | 24 VAC  |                 |
| Power Requirements     |   |                 |
| (Running)              | Pan   | 0.31A (7.5 VA)  |
|                        | Tilt  | 0.38A (9.2 VA)  |
| (Starting)             | Pan   | 0.47A (11.2 VA) |
|                        | Tilt  | 0.56A (13.5 VA) |
| Connector              | AMP CPC type (mate supplied), installed onto a pigtail exiting from the base of the unit (all functions, camera power, lens, video, pan/tilt) |                 |
| Video Connector        | BNC   |                 |
| Camera Power           | Spade lugs  |                 |
| Motors                 | Two-phase induction type, instantaneous reversing   |                 |
| Limit Switches         | 5A each (pan/tilt); external adjustment   |                 |
| Conductor Requirements | As listed, plus coax cable:   |                 |
|                        | Pan/Tilt  | 5 plus ground   |
|                        | Lens  | 4               |
|                        | Camera AC   | 2               |

### Maximum Operating Distances



|                                  | Cable Size                    | Maximum Distance |                     |
|----------------------------------|-------------------------------|------------------|---------------------|
|                                  |                               | A                | B                   |
| <b>PT280-24P</b><br>5 Conductors | 20 AWG (0.5 mm <sup>2</sup> ) | 110 ft (34 m)    | 5,800 ft (1,767 m)  |
|                                  | 18 AWG (1.0 mm <sup>2</sup> ) | 180 ft (55 m)    | 8,250 ft (2,515 m)  |
|                                  | 16 AWG (1.5 mm <sup>2</sup> ) | 290 ft (88 m)    | 13,000 ft (3,962 m) |
| 6* Conductors                    | 20 AWG (0.5 mm <sup>2</sup> ) | 210 ft (64 m)    |                     |
|                                  | 18 AWG (1.0 mm <sup>2</sup> ) | 330 ft (101 m)   |                     |
|                                  | 16 AWG (1.5 mm <sup>2</sup> ) | 530 ft (162 m)   |                     |

\*Using 2 wire motor common

- Notes:**
- Distance (A) from control to pan/tilt is the same as distance from relay box to pan/tilt.
  - Maximum operating distance can be extended by using a low voltage control (24 VAC) and a relay box. Distance (B) from control to relay box is the same for all applications.
  - Distances are calculated with both motors (pan and tilt) running and assuming a 10% voltage drop in the cable.

## MECHANICAL

|              |   |
|--------------|---|
| Pan          | 0-355° movement in horizontal plane   |
| Speed        | 12°/sec ±1°   |
| Tilt         | ±90° movement in vertical plane   |
| Speed        | 3°/sec ±0.5°  |
| Maximum Load | 15 lb (6.8 kg) at 2" (5.08 cm) from tilt table surface to center of gravity (upright or inverted) |
| Gearing      | Chain and sprocket final drive  |
| Bearings     | Pan – Heavy duty ball bearings<br>Tilt – Oilite bronze bushing                                    |
| Duty Cycle   | 50% duty cycle; 30 minute rating  |

## GENERAL

|                 |  |
|-----------------|--|
| Construction    | Aluminum plate, all internal parts corrosion protected |
| Finish          | Gray polyester powder coat                             |
| Environment     | Indoor;<br>32° to 120°F (0° to 49°C)                   |
| Unit Weight     | 9 lb (4 kg)  |
| Shipping Weight | 11 lb (4.9 kg)   |

## CERTIFICATIONS/RATINGS

- CE, Class B
- UL Listed
- Meets NEMA Type 1 standards

## RECOMMENDED CONTROLS

|                     |   |
|---------------------|---|
| Coaxitron or Matrix | See individual spec sheets for information  |
| MPT24DT             | Desktop control for 24 VAC pan/tilt   |
| MPTAZ24DT           | Desktop pan/tilt and zoom lens control with auto/random scan for 24 VAC pan/tilts |
| RB24                | Relay box for 24 VAC pan/tilts; extends operating distance (control to relay box) |

## RECOMMENDED ENCLOSURES

|               |                                 |
|---------------|---------------------------------|
| EH3010/EH3014 | Small, indoor enclosure         |
| EH4010/EH4014 | Small, indoor enclosure         |
| EH3508/EH3512 | Small, indoor/outdoor enclosure |

## RECOMMENDED MOUNTS

|       |   |
|-------|---|
| PM105 | Medium duty wall mount; maximum load 40 lb (18.14 kg) |
| PM14  | Light duty wall mount; maximum load 20 lb (9.07 kg)   |



### Pelco Worldwide Headquarters:

3500 Pelco Way, Clovis, California 93612-5699 USA

**USA & Canada** Tel: (800) 289-9100 • FAX (800) 289-9150 • DataFAX (800) 289-9108

**International** Tel: (559) 292-1981 • FAX (559) 348-1120 • DataFAX (559) 292-0435

[www.pelco.com](http://www.pelco.com)

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