

# PT680-24P Pan/Tilt

## OUTDOOR, MEDIUM DUTY, FEEDTHROUGH

### Product Features

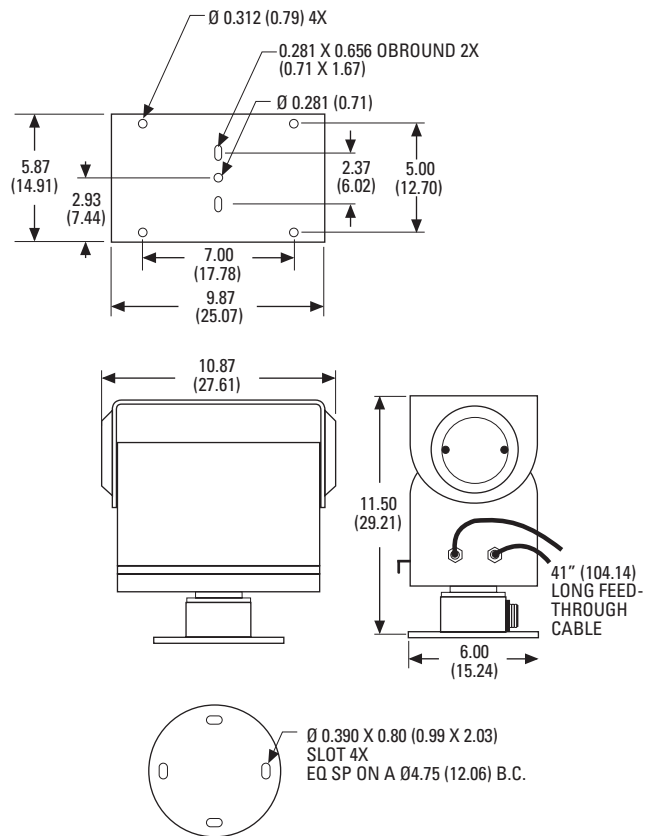
- 24 VAC Operation
- Outdoor Applications
- Adjustable Worm-Gear Final Drive
- Prewired for Zoom Lens, Camera Power, Enclosure Power, and Video
- Optional Preset Positioning Available
- Maximum Load 50 lb (22.7 kg)



The **PT680-24P** is a medium duty outdoor pan/tilt designed to accept a maximum load of 50 pounds (22.7 kg). The unit is factory prewired for feedthrough of the motorized zoom lens, camera power, enclosure power, and video signals. 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 **PT680-24P** features rugged worm-gear final drive assemblies to minimize backlash and prevent wind drift. The drives are fully adjustable for wear.

An aluminum and coated-steel housing limits the effects of corrosion in outdoor applications. The **PT680-24P** is recommended for use with our EH4700 Series environmental enclosures.



by Schneider Electric

International Standards  
Organization Registered Firm;  
ISO 9001 Quality System



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**MODEL**

PT680-24P Medium duty outdoor pan/tilt, 24 VAC operation, supplied with factory-assembled pigtail cable and connector.

**MECHANICAL**

Pan 0 to 355° movement in horizontal plane  
 Speed 9°/sec ±1°  
 Torque 10 ft-lb with specified voltage  
 Tilt ±90° movement in vertical plane  
 Speed 3°/sec ±0.5°  
 Maximum Load 50 lb (22.7 kg) at 5" (12.7 cm) from tilt table surface to center of gravity  
 Gearing Adjustable worm-gear final drive to prevent drift and minimize backlash  
 Bearings  
 Pan Heavy duty ball bearings  
 Tilt Oilite bronze bushing  
 Duty Cycle 50% duty cycle; 30 minute rating

**ELECTRICAL**

Input Voltage 24 VAC, 50/60 Hz  
 Power Requirements  
 Pan 0.9 A (21.6 VA)  
 Tilt 1 A (24.0 VA)  
 Connectors AMP CPC type, mate supplied  
 Motors Two-phase induction type, instantaneous reversing  
 Limit Switches 5 A each (pan and tilt)  
 Conductor Requirements 13, plus ground and coaxial cable  
 Maximum Operating Distances\*  
 5 Conductors 20 AWG (0.5 mm<sup>2</sup>) 60 ft (18 m)  
 18 AWG (1.0 mm<sup>2</sup>) 95 ft (29 m)  
 16 AWG (1.5 mm<sup>2</sup>) 155 ft (47 m)  
 6 Conductors† 20 AWG (0.5 mm<sup>2</sup>) 118 ft (35 m)  
 18 AWG (1.0 mm<sup>2</sup>) 185 ft (56 m)  
 16 AWG (1.5 mm<sup>2</sup>) 295 ft (90 m)

\*Distances are calculated with both motors (pan and tilt) running and assuming a 10% voltage drop.  
 †Using 2-wire motor common.

**GENERAL**

Construction Aluminum plate, all parts corrosion protected  
 Finish Gray polyester powder coat  
 Environment Outdoor operation; -10° to 120°F (-23° to 49°C)  
 Unit Weight 21.26 lb (9.6 kg)  
 Shipping Weight 26 lb (11.7 kg)

**CERTIFICATIONS/RATINGS**

- UL Listed
- Meets NEMA Type 3R standards

**RECOMMENDED CONTROLS**

Coaxitron® or Matrix Refer to individual specification 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.

**RECOMMENDED ENCLOSURES**

EH4700 Series Environmental enclosure  
 EH5700 Series Environmental enclosure

**RECOMMENDED MOUNTS**

PA2000 Adapter plate; required when using WM2000.  
 PM2000, PM2010 Ceiling/pedestal mount; maximum load 125 lb (56.7 kg).  
 ST1 Support strut for WM2000/PM2000/ PM2010.  
 WM2000 Wall mount; maximum load 75 lb (34 kg).  
 When used with ST1 support strut, maximum load is increased to 150 lb (68 kg). Must be used with PA2000 adapter.

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