

PT680-24P Pan/Tilt

OUTDOOR, MEDIUM DUTY, FEEDTHROUGH

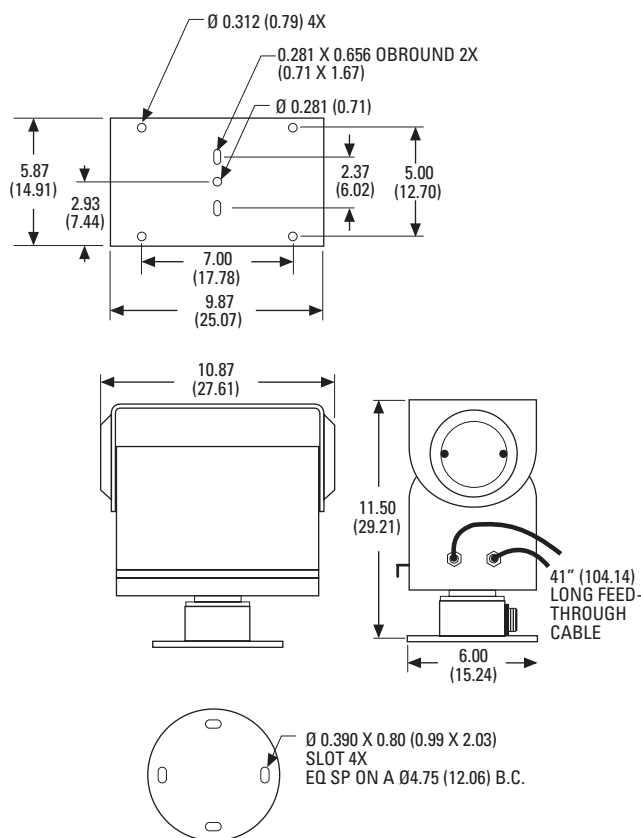
Product Features

- 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.



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



by Schneider Electric

International Standards
Organization Registered Firm;
ISO 9001 Quality System



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TECHNICAL SPECIFICATIONS

MODEL

PT680-24P	Medium duty outdoor pan/tilt, 24 VAC operation, supplied with factory-assembled pigtail cable and connector.
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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 ²) 60 ft (18 m) 18 AWG (1.0 mm ²) 95 ft (29 m) 16 AWG (1.5 mm ²) 155 ft (47 m)
6 Conductors†	20 AWG (0.5 mm ²) 118 ft (35 m) 18 AWG (1.0 mm ²) 185 ft (56 m) 16 AWG (1.5 mm ²) 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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