

PT280-24P Pan/Tilt

INDOOR, LIGHT DUTY, FEEDTHROUGH

Product Features

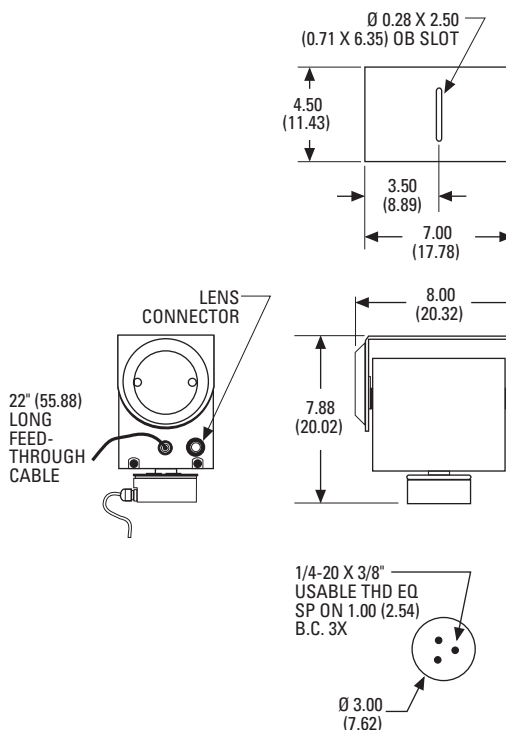
- "Mini" Pan/Tilt
- 24 VAC Operation
- Indoor Applications
- Inverted Operation
- Prewired for Zoom Lens, Camera Power and Video
- High Speed Pan Movement ($12^\circ/\text{sec} \pm 1^\circ$)
- Capable of Auto/Random Scan Operation when Used with Appropriate Control
- Maximum Load 15 Pounds (6.8 kg)



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.



TECHNICAL SPECIFICATIONS

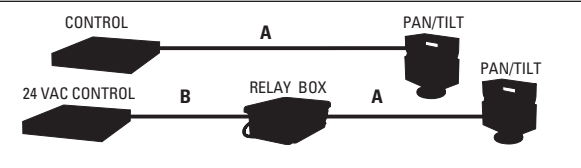
MODEL

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
PT280-24P	20 AWG (0.5 mm ²)	110 ft (34 m)	5,800 ft (1,767 m)
	18 AWG (1.0 mm ²)	180 ft (55 m)	8,250 ft (2,515 m)
	16 AWG (1.5 mm ²)	290 ft (88 m)	13,000 ft (3,962 m)
6* Conductors	20 AWG (0.5 mm ²)	210 ft (64 m)	
	18 AWG (1.0 mm ²)	330 ft (101 m)	
	16 AWG (1.5 mm ²)	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 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; 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

Coaxtron 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)



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