

EH8100 SERIES OUTDOOR, PRESSURIZED ENCLOSURE

TECHNICAL SPECIFICATIONS

SECURITY SYSTEM

DIVISION – LEVEL 1___ 28 ELECTRONIC SAFETY AND SECURITY

LEVEL 2___ 28 20 00 ELECTRONIC SURVEILLANCE

LEVEL 3___ 28 23 00 VIDEO SURVEILLANCE

PART 2 – PRODUCTS

2.01 GENERAL

- A. All equipment and materials used shall be standard components that are regularly manufactured and used in the manufacturer's system.
- B. All systems and components shall have been thoroughly tested and proven in —actual use.
- C. All systems and components shall be provided with the availability of a toll-free (U.S. and Canada), 24-hour technical assistance program (TAP) from the manufacturer.- The TAP shall allow for immediate technical assistance for either the dealer/installer or the end user at no charge for as long as the product is installed.
- D. All systems and components shall be provided with a one-day turnaround repair express and 24-hour parts replacement. The repair and parts express shall be guaranteed by the manufacturer on warranty and nonwarranty items.

2.02 OUTDOOR, PRESSURIZED ENCLOSURE

- A. The pressurized camera enclosure shall be designed for use in adverse environment conditions with 1/2-inch or smaller format cameras and fixed focal length or motorized zoom lenses. The enclosure may optionally include a thermostatically controlled heater and blower along with any accessories that may be required for a complete environmental camera enclosure.
- B. The pressurized camera enclosure shall be designed to military and space environment standards.
- C. The pressurized camera enclosure shall meet or exceed the following design and performance specifications.

2.03 ELECTRICAL SPECIFICATIONS

- A. Input Voltage: For heaters: 120 VAC (230 VAC optional). Factory-wired for 120 VAC; must specify 230 VAC at time of order
- B. Power Consumption: For heaters: 40 W for EH8104 and 80 W for EH8106. Heaters are thermostatically controlled to turn on at 40°F (4°C) and off at 60°F (15°C)
- C. Input Connector: Souriau 85107E2016P, 16-pin jam nut, panel mount receptacle. (Souriau 85106EC2016S, MS-type mating connector supplied)
- D. Max. Cable Distances
(120 VAC)
1. EH8104: 1,773' (540 m) on 20 AWG (0.5 mm²) wire, 2,821' (860 m) on 18 AWG (1.0 mm²) wire, and 4,477' (1,365 m) on 16 AWG (1.5 mm²) wire
 2. EH8106: 886' (270 m) on 20 AWG (0.5 mm²) wire, 1,410' (430 m) on 18 AWG (1.0 mm²) wire, and 2,238' (682 m) on 16 AWG (1.5 mm²) wire
- (230 VAC)
1. EH8104: 6,514' (1,985 m) on 20 AWG (0.5 mm²) wire, 10,364' (3,159 m) on 18 AWG (1.0 mm²) wire, and 16,449' (5,014 m) on 16 AWG (1.5 mm²) wire
 2. EH8106: 3,257' (993 m) on 20 AWG (0.5 mm²) wire, 5,182' (1,579 m) on 18 AWG (1.0 mm²) wire, and 8,224' (2,507 m) on 16 AWG (1.5 mm²) wire

2.04 ENVIRONMENTAL SPECIFICATIONS

- A. Ambient Operating Temp: -40°F to 122°F (-40°C to 50°C) with heater(s)
- B. Vibration: 5 to 60 Hz with 0.082-inch total travel (15 g's at 60 Hz). From 60 to 1,000 Hz, 5 g's rms with random vibration
- C. Altitude: Sea level to equivalent of 10,000 ft (3,048 m)
- D. Acoustic Noise: Operates in 150 dB acoustic noise environments
- E. Humidity: Up to 100% relative humidity. Standard Schraeder and pressure relief valves provide positive internal pressure with dry nitrogen.

2.05 PHYSICAL SPECIFICATIONS

- A. Construction: Aluminum
- B. Finish: Gray polyester powder coat
- A. Dimensions
1. EH8104: 18.00" L x 4.50" W x 5.50" H (45.72 x 11.43 x 13.97 cm)
 2. EH8106: 22.00" L x 6.50" W x 7.00" H (55.88 x 16.51 x 17.78 cm)
- D. Weight
1. EH8104: 8 lb (3.62 kg)
 2. EH8106: 15 lb (6.79 kg)

2.06 MECHANICAL SPECIFICATIONS

- A. Front Window: Tempered glass, 0.225-inch (5.71 mm) thick
- B. Camera Mounting: Multiple mounting holes on camera sled
- C. Max. Camera/Lens Size: Accepts camera and lens combinations* (including BNC connector) up to:
 - 1. EH8104: 14.00" L x 2.50" H x 2.50" W (35.56 x 6.35 x 6.35 cm) or 14.00" L x 3.00" diameter (35.56 x 7.62 cm)
 - 2. EH8106: 18.00" L x 4.00" H x 4.00" W (45.72 x 10.16 x 10.16 cm) or 18.00" L x 5.00" diameter (45.72 x 12.7 cm)
- D. Enclosure Mounting: Adjustable cradle secured with stainless steel bands
- E. Purge Fitting: Standard Schraeder valve to allow enclosure to be filled with dry nitrogen
- F. Purge Relief Fitting: Prevents over-pressurization of enclosure

* Assumes lens is fully extended.

2.07 CERTIFICATIONS/RATINGS

- A. UL Listed (except models with 230 VAC heaters)
- B. CE, Class A
- B. Meets NEMA Type 6 standards
- C. Meets IP67 standards

2.08 WARRANTY

- A. 1 year, parts and labor

2.09 PELCO MODEL NUMBERS

- A. EH8104 Pressurized enclosure with heater, 4-inch (10.16 cm) inside diameter x 17-inch (43.18 cm) lower body length
- B. EH8106** Pressurized enclosure with heaters, 6-inch (15.24 cm) inside diameter x 20-inch (50.8 cm) lower body length

** For applications requiring an integrated positioning system, see Pelco's Pressurized Legacy Series.