Perimeter IR Beams

The Perimbar perimeter barriers comprise an array of modulated and synchronized infra-red beams fitted in slim columns available in heights of 1.0m, 1.5m, 2.0m, 2.5m, 3.0m, 3.5m and 4.0m. Perimbars are constructed from heavy-duty aluminium extrusions with special filter material windows on three sides concealing the beam positions, directions and patterns. The columns have universal fixing points allowing mounting on walls and posts. The columns may be installed up to 100m apart. By linking these 100m sections, many kilometers of perimeter can be protected.

The infra-red transmitters and receivers installed in the columns have a range of 100m, with 90% attenuation (test filters supplied). In addition to the transmitter and receiver modules, other units such as heaters, thermostats, system performance monitors and low voltage power units can be fitted.

A synchronizing link (Synclink) facility is included on each transmitter and receiver to provide greater security and easy multi-beam operation. Utilizing the Synclink avoids the need to transpose sets of transmitters and receivers in multi-beam arrangements and also allows larger numbers of beams with close groupings in single columns for operation over adjacent vertical beam paths. Synclink also avoids spurious beam interaction where barrier housings are not in line and in ‘dog leg’ situations.
The slim, unobtrusive styled column is in two sections, a strong, rigid back section and a front channel section. The back section is designed for ease of installation to walls, posts, or floor mounting by means of “T” nuts/bolts slipped into the special slots on the outside. Designed to clip on to the back section, the front section has multiple viewing ports on all three sides. These ports are covered with a special filter material visually hiding the beam positions, directions and patterns. Over the length of the back section are threaded slots which enable IR beam transmitters and receivers to be positioned vertically to any of the viewing ports in the front channel section.

PERIMBAR COLUMNS, comprising:
- Heavy duty back plate extrusion, complete with universal fixing points for mounting on walls, posts, free standing (with optional support plate). Design also allows fully adjustable fixing points for internal equipment. Complete with tamper switches.
- Heavy duty snap-on front extrusion with cut-outs for 3 viewing directions. Complete with 3 black acrylic windows.
- Top cap with tamper and anti-climb over functions.
- Base plate complete with 4 X PG16 cable glands, and tamper switch.

Specifications

Range
- 0.5 to 150 meters exterior
- 0.5 to 200 meters interior

Beam Angle
- 5º

Adjustments
- 200º Horizontal
- 90º Vertical

Width
- 40mm

Wavelength
- 880nm

Temperature
- -20º to +55º C (with heaters)

Humidity
- 10% to 90% relative

Power
- 10.5 to 15.0 VDC 125mA

Response Time
- 20 ms to 40 ms

Size
- 112mm by 130mm by Height

Ordering Information:

(1) SPI-150-4/T/R 2.0M Pre-assembled Column, 4x Transmitters, 4x Receivers, Power Pack, Heaters, Stat, Signal Processor, Part No. 316-32452-01 Fog discrimination, Anti-climb, Anti-tamper, Cable termination plate, 0.5-150m External Range

(2) SPI-150-4/R 2.0M Pre-assembled Column, 4x Receivers, Power Pack, Heaters, Stat, Signal Processor, Part No. 316-32452-02 Fog discrimination, Anti-climb, Anti-tamper, Cable termination plate, 0.5-150m External Range

(1) SPI-150-4/T 2.0M Pre-assembled Column, 4x Transmitters, Power Pack, Heaters, Stat; Signal Processor, Part No. 316-32452-03 Fog discrimination, Anti-climb, Anti-tamper, Cable termination plate, 0.5-150m External Range

For additional product and GSA information, please visit our Web Site at

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