

## VAR-i2-1 Infra-Red Illuminator A&E Specification Text

30m to 65m (98ft to 213ft) illumination distance

10° to 120° illumination angle



### GENERAL

- A. The Infra-Red illuminator shall be a solid state LED device utilizing SMT (Surface Mount Technology) light intensification miniature optics, with current controlled LED's providing at least 10 years illumination life (44,000hrs night time use). Available in 850nm or 940nm versions.
- B. The illuminator shall provide an integrated 12-24V AC/DC power supply.
- C. The illuminator shall include an adjustable photocell for automatic on/off operation, and a telemetry control input for remote operation.
- D. The illuminator shall provide a photocell-following output.
- E. The LED illuminator shall be vandal resistant and manufactured using high impact polycarbonate lensing and shall incorporate an aluminum extruded heat sink to aid LED life expectancy.
- F. The illuminator shall have an IP66 rating as a minimum.
- G. The illuminator shall have an operational temperature range between -50 to 50°C (-58 to 122°F).
- H. The illuminator shall be CE and FCC approved.
- I. The illuminator shall make use of hot-spot reduction (HRT) technology.
- J. The illuminator shall incorporate status LED's indicating correct voltage and operation, receipt of valid commands, and incorrect commands and input voltage.
- K. The illuminator shall make use of interchangeable diffuser-lenses permitting illumination angles of 10°, 35°, 60°, 80°, 120°. Custom diffuser-lenses shall be available on request.
- L. The illuminator shall be controllable via a hand-held control permitting remote adjustment of the following parameters and functions:
  - i. Power Select – 20, 40, 60, 80 and 100% of power
  - ii. Photocell Adjust – 3 sensitivity levels
  - iii. Photocell Disable
  - iv. Timer Setting – telemetry-triggered, pre-determined "on" period, up to 30 minutes
  - v. Remote Control Set-up Disable
  - vi. Restore Factory Defaults
  - vii. Remote Dimming
  - viii. LED Status Indicator on/off Toggle

## TECHNICAL SPECIFICATIONS

A. The illuminator shall meet or exceed the following specifications:

- a. Max. lighting distance: 65m (213ft) [Angle dependant]
- b. Angle of Illumination: 10, 35, 60, 80, 120 degrees [Interchangeable]
- c. Optics: Surface mount technology LED's
- d. Maximum consumption: 12 watts
- e. Input: 12-24V AC/DC [+/- 10%]
- f. Weight: 0.6kg (1.3lbs)
- g. Ingress Protection Rating: IP66
- h. Operating Temperature: -50°C à + 50°C (-58 to 122°F)
- i. Wavelength: 850nm (940nm as an option)
- j. Dimensions: 75mm x 100mm x 64mm (3" x 4" x 2.5")

B. The illuminator shall be covered by a manufacturer's warranty of 5 years from the date of purchase.

C. The infrared illuminator shall be the VAR - i2 -1 manufactured by Raytec or an approved equivalent.