

# technical specifications

## Electrical Specifications:

**Supply Voltage.** 10.2 to 40 VDC

**Supply Current.** 3mA (constant current) in all operational states

## Environmental Specifications:

**Temperature.** -10°C to +55°C

**Humidity.** 10 to 95% RH Non-condensing

**Protection Index.** IP65 when suitably mounted and terminated

## Mechanical Specifications:

### Beam Head.

180mmH x 155mmW x 137mmD

Weight 1.1Kg

### Controller.

185mmH x 120mmW x 62mmD

Weight 0.55Kg

### 40KIT80 Mid-Range Reflector.

293mmH x 293mmW x 5mmD

Weight 0.8Kg

### 80KIT100 Long Range Reflector.

394mmH x 394mmW x 5mmD

Weight 1.8Kg

### ADAPTER.

270mmH x 250mmW x 5mmD

Weight 0.6Kg

(mounts the Beam Head onto unistrut)

## Optical Specifications:

**Optical Wavelength.** 870nm

**Maximum Angular Alignment.**  $\pm 15^\circ$

**Maximum Angular Misalignment.**  
(static not auto-aligning)

Beam Head  $\pm 0.75^\circ$  Reflector  $\pm 2^\circ$

## Operational Specifications:

### Protection Range:

#### FIREBEAM.

Standard Product 5 to 40 metres

#### 40KIT80.

Mid-Range Reflector Kit 40 to 80 metres

#### 80KIT100.

Long Range Reflector Kit 80 to 100 metres

### Alarm Sensitivity Levels:

25%(1.25dB) to 50%(3dB) in 1%(0.05dB) increments (default 35% (1.87dB))

### Alarm Condition:

Obscuration drops to below pre-defined sensitivity level.

Time to Alarm Condition adjustable  
2 to 30 seconds in 1 second increments  
(default 10 seconds)

### Alarm Indication:

Controller Status - FIRE

Controller Red Flashing LED 0.5 Second

Head Red Flashing LED 1 Second

Alarm Relay Change Over (CO) Contact

Rating 2A @ 30 VDC

### Test/Reset Features:

Beam test function by controller

Alarm latching/auto-reset selectable  
(default auto-reset)

Alarm reset in latching mode by controller reset function, removing power for >5 seconds, apply 12 to 24 VDC to reset connections in Beam Head.

### Fault Sensitivity Level:

90%

### Fault Condition:

Obscuration drops to below the fault sensitivity level within 1 second

Power Down or Supply Voltage < 9 VDC

Commissioning modes, Pre-Alignment and Auto Alignment

Beam turned off during Beam Maintenance  
(auto resets in 8 hours to normal)

Time to Fault Condition adjustable,  
2 to 60 seconds in 1 second increments  
(default 10 seconds)

### Fault Indication:

Controller Status - FAULT

Controller Yellow Flashing LED 1 Second

Head Yellow Flashing LED 1 Second

Fault Relay Change Over (CO) Contact  
Rating 2A @ 30 VDC

### Normal Condition:

Obscuration level is above the Alarm sensitivity level

Controller Status - NORMAL

Controller Green Flashing LED 1 Second

Programmable on/off

Head Green Flashing LED 1 Second

Programmable on/off

### Auto-align/Beam Contamination Compensation:

Auto-align during normal operation if obscuration drops below 90%  
(doesn't effect normal operating mode)

Beam Contamination Compensation 4 hour monitoring. Compensation data available at the controller