

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