

Special Applications

Conventional Linear Beam Smoke Detector BEAM1224

• Melbourne

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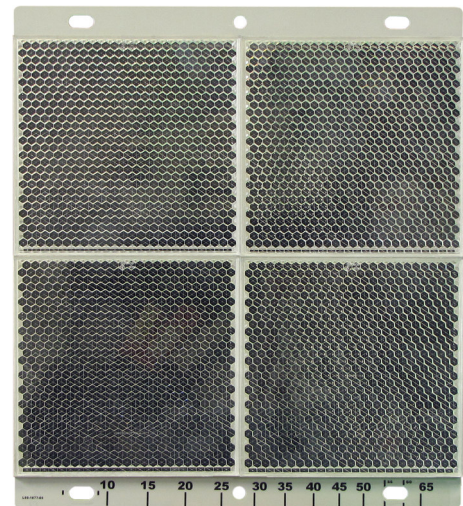
www.pertronic.com.au

Overview:

The BEAM1224 is a four wire conventional reflected linear beam smoke detector. It is uniquely suited for protecting open areas with high ceilings where other methods of smoke detection are difficult to install and maintain. Installation of the single-ended reflective design is much easier than dual ended beam detectors. Alignment is quickly accomplished via an optical sight and a 2-digit signal strength meter incorporated into the product. Listed for operation between -30°C and 55°C, BEAM1224 can be used in open area applications to provide early warning in environments where temperature extremes exceed the capability of other types of smoke detection. Heater kits are available for use in low temperatures.







Features:

-  5m to 100m protection range
-  Single ended, reflected optical beam design
-  Digital display for easy alignment
-  Built-in automatic drift compensation for signal deterioration from dust build up
-  Calibrated reflector for sensitivity testing
-  Remote test station optional (fire and fault indication, test and isolate keyswitch)
-  6 user selectable sensitivity levels
-  Suitable for 12V or 24V operation (BEAM1224 only)



Specifications:

Electrical Specifications:

- | | |
|---|---|
|  Operating Voltage: | 10.2 to 32 VDC (BEAM 1224)
15 to 32 VDC (BEAM 1224S) |
|  Standby Current: | 17mA Max @ 24VDC |
|  Current During Testing (BEAM1224S): | 500mA Max @ 24VDC |
|  Alarm Current: | 38.5mA Max @ 24VDC |
|  Fault Current: | 8.5mA Max @ 24VDC |
|  Alignment Mode Current: | 28mA Max @ 24VDC |

Environmental Specifications:

- 🔌 Temperature: -30 °C to 55 °C
- 🔌 Humidity: 10 – 93% RH Noncondensing

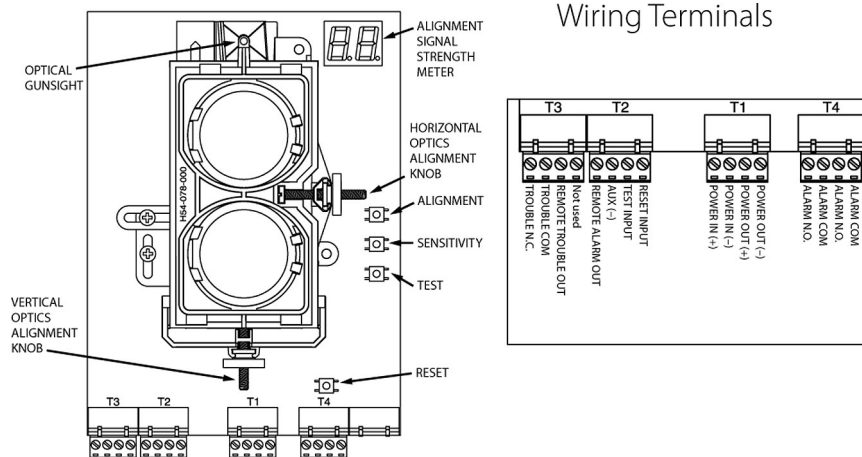
Mechanical Specifications:

- 🔌 Size (including faceplate): 254mm (h) x 190mm (w) x 84mm (d)
- 🔌 Size (including BEAMSMK): 254mm (h) x 190mm (w) x 135mm (d)
- 🔌 Reflector Dimensions (5m to 70m): 200mm x 230mm
- 🔌 Reflector Dimensions (beyond 70m): 400mm x 460mm (4 x 5-70m reflectors)

Operational Specifications:

- 🔌 Protection Range: 5m to 100m
- 🔌 Manual adjustment angle: +/- 10° horizontal & vertical
- 🔌 Sensitivity to building movement: +/- 0.5° (Detector); +/-10° (Reflector)
- 🔌 Sensitivity Levels:
 - Level 1 – 25%
 - Level 2 – 30%
 - Level 3 – 40%
 - Level 4 – 50%
 - Acclimate Level 1 : 30 – 50%
 - Acclimate Level 2 : 30 – 50%

Wiring and Setup diagram:



Ordering Information:

Description

- Conventional beam smoke detector with 5-70m reflector
- Conventional beam smoke detector with 5-70m reflector and integral sensitivity test
- Long range accessory kit (3) additional reflectors for 70-100m
- Multi-mount kit (Provides increased manual adjustment). If using for transmitter/receiver unit, BEAMSMK must be used as well)
- Surface mount kit
- Heater kit for transmitter/receiver unit
- Heater kit for reflector
- Remote test station with keyswitch (Test and Reset)

Part Number

- BEAM1224
- BEAM1224S
- BEAMLRK
- BEAMMK
- BEAMSMK
- BEAMHK
- BEAMHKR
- RTS451KEY

Listing No.

- afp-2081
- afp-2081

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