

# Special Applications

## Analogue Addressable Linear Beam Smoke Detector BEAM200

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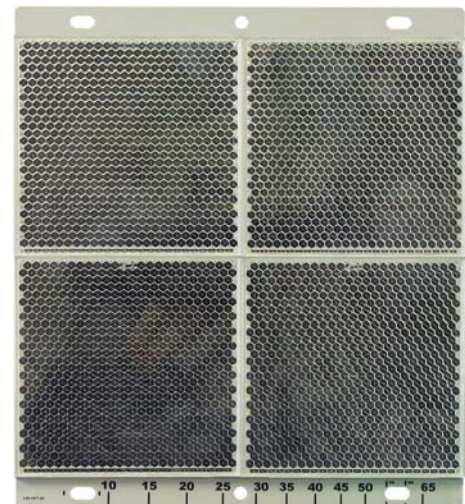
www.pertronic.com.au

### Overview:

The BEAM200 is an analogue loop powered 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, BEAM200 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
-  Analogue loop powered
-  Built-in short circuit isolation
-  Calibrated reflector for sensitivity testing
-  Remote test station optional (fire and fault indication, test and isolate keyswitch)
-  6 user selectable sensitivity levels



### Specifications:

#### Electrical Specifications:

 Operating Voltage:	15 to 32 VDC
 Standby Current:	2mA Max (loop power)
 Current During Testing:	500mA Max (external supply)
 Alarm Current:	8.5mA Max (loop power)
 Fault Current:	4.5mA Max (loop power)
 Alignment Mode Current:	20mA Max (loop power)

### Environmental Specifications:

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

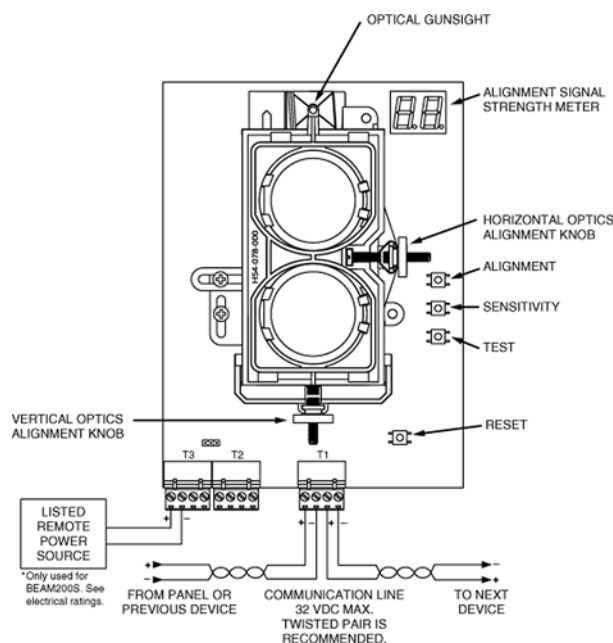
### Mechanical Specifications:

- 🔌 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	Part Number	Listing No.
Intelligent beam smoke detector with 5-70m reflector	BEAM200	afp-2080
Intelligent beam smoke detector with 5-70m reflector and integral sensitivity test	BEAM200S	afp-2080
Long range accessory kit (3) additional reflectors for 70-100m	BEAMLRK	
Multi-mount kit (Provides increased manual adjustment). If using for transmitter/receiver unit, BEAMSMK must be used as well)	BEAMMK	
Surface mount kit	BEAMSMK	
Heater kit for transmitter/receiver unit	BEAMHK	
Heater kit for reflector	BEAMHKR	
Remote test station with keyswitch (Test and Reset)	RTS451KEY	

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