

SRA-24 REFLECTIVE BEAM DETECTOR



STANDARD FEATURES

- Detector spacing from 5-30 meters.
- Pulsed beam to reduce overall consumption and improve the noise rejection characteristics.
- Small flat reflector.
- Powered directly from the zone so no auxiliary power supplies are required.
- Full line continuity options.
- Automatic drift compensation.
- Fire detection sensitivity is set to 30% obscuration.

SPECIFICATIONS

Ordering Code:	
SRA-24 * (includes interface kit and reflection)	
SRA-24 BackBox (includes SRA-24 mouting screws)	
Operating Voltage	15-30Vdc
Stand-by Current	350mA at 24Vdc
Max Current In Alarm	50mA at 24Vdc
Operating Range	5 - 30m
Sensitivity	30%
Compensation	1% per 20mins.
Reflector mounting angle	+/-10%
Operating Temp. Range	-10°C to +50°C
Storage Temp. Range	-30°C to +70°C
Maximum Humidity	95%RH - Non condensing (at 40°C)
Color & Case Material	Ivory ABS
Size:	
SRA-24	152x122x80mm
Reflector	190x190x3mm
Back Box	152x122x38mm
Weight: SRA-24	700g (Including termination module)
Reflector	50g
Back Box	510g

APPLICATION

Hochiki's Reflective Beam Detector is designed for smoke detection in large spaces such as halls, warehouse, museums, theatres etc., where conventional point detection is impractical or more costly. The unit is not suitable for applications where strong or reflected sunlight is present, in these instances the SPB-ET should be considered. The unit detects smoke linearly over the protected range enabling early detection before the fire spreads. Compact design, good looks and flush mounting installation makes this unit ideal for fitting in areas where architectural considerations are important.

OPERATION

The Reflective Beam Detector projects a near Infra-red beam which is reflected back to the receiver circuit within the Beam Detector. The beam is pulsed to reduce overall current consumption and improve noise rejection characteristics. Powered directly from the conventional zone without the need for an external supply, when the zone is reset, the Detector is automatically reset.

All field wiring is connected to the interface on the Reflective Beam Detector. If sufficient smoke obscures the beam exceeding the 30% sensitivity threshold, the amount of reflected light is reduced and the Detector indicates a fire by switching a 470 Ohm resistor across the zone. Any gradual reduction in received light is automatically compensated for within the detector.

The status of the unit is indicated by three LEDs which are viewed through a unique lens that allows good visibility from any viewing angle, particularly from beneath the unit. The LEDs indicate, *Normal*, *Setup*, *Fault* and *Fire Condition*, so the user can verify which unit is in alarm.

The unit indicates a fault on the zone under the following conditions:

- Compensation limit exceeded
- Total obscuration of beam
- Beam detector unit removed from zone

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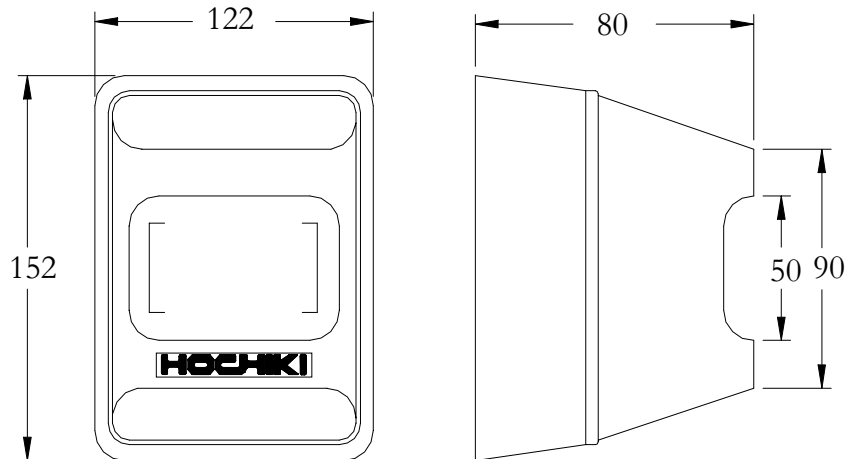
PRODUCT LISTINGS

Underwriters Laboratories:
Factory Mutual:
CSFM #:

MOUNTING

The SRA-24 can easily be either flush or surface mounted depending on the back box used. If the Beam needs to be mounted on the surface then a surface back box should be used. The Hochiki SRA-24 Backbox is manufactured in steel and color coded to match the beam, it has cable entry knockouts on all four sides to allow ease of installation.

DIMENSIONS



TYPICAL WIRING

