



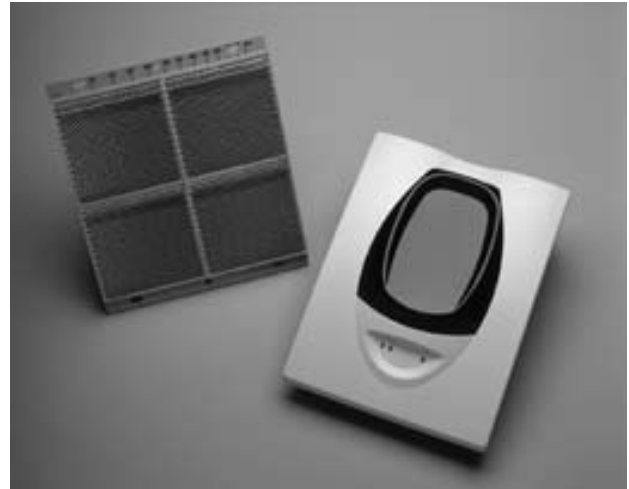
Kingfisher Company, inc.

Beam1224 Series Smoke Detector



Features:

- 16 to 328 foot protection range
- Single-ended, reflective design
- User friendly alignment procedure
- 6 user selectable sensitivity levels
- Optional integral NFPA 72 sensitivity test features
- Removable plug-in terminal blocks
- Digital display for easy alignment
- Paintable Cover
- Easiest alignment in the industry
- Remote test station optional
- Integral sensitivity test filter (KFBEAM1224S ONLY)
- Sensitivity filter (Incremental scale on reflector)
- Local alarm test switch
- Local alarm reset switch
- Remote test and reset switch



Description:

Kingfisher Model KFBEAM1224 is a four-wire conventional projected 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. It is to be used with KCi compatible control panels only. Installation of the single-ended reflective design is much easier than dual ended projected beam detectors. Alignment is quickly accomplished via an optical sight and a 2-digit signal strength meter incorporated into the product. Listed for operation from -22°F to 131°F , KFBEAM1224 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.

KFBEAM1224S is equipped with an integral sensitivity test feature that consists of a test filter attached to a servo motor inside the detector optics. Using the remote test station KFRTS451, the motor is activated and moves the filter in the pathway of the light beam, thereby testing detector sensitivity. This integral sensitivity test feature allows the user to quickly and easily meet the annual maintenance and test requirements of NFPA 72.

Specifications:

On smooth ceilings, 30 – 60 feet between projected beams and not more than one-half that spacing between a projected beam and a sidewall. Other spacing may be used depending on ceiling height, airflow characteristics, and response requirements. See NFPA 72.

Operational Specifications:

Protection Range:	16 ft. to 328 ft. (5m to 100m)
Operating Temperature Range:	-22°F to 131°F (-30° to 55°C)
Operating Humidity Range:	10% to 93% relative humidity (non-condensing)
Adjustment Angle:	+/- 10 Degrees horizontal & vertical (The optics move independent of the unit)
Sensitivity Levels:	Level 1—25%
	Level 2—30%
	Level 3—40%
	Level 4—50%
	Acclimate Level 1—30 - 50%
	Acclimate Level 2—40 - 50%

Electrical Specifications:

KFBEAM1224 Voltage:	10.2 to 32 VDC
KFBEAM1224S Voltage:	15 to 32 VDC
Avg. Standby Current:	17mA Max
Avg. Current During Testing:	500mA Max
Alarm Current:	38.5mA Max
Fault Current:	8.5mA Max
Alignment Mode Current(24VDC):	28mA Max

Electrical Specifications (KFBEAMHK):

KFBEAMHK Voltage:	15 to 32 VDC
KFBEAMHK Current:	92 mA at 32 VDC
KFBEAMHK Power Consumption:	1.6W @ 24 VDC; 3W @ 32 VDC

Mechanical Specifications:

Detector Dimensions:	10"H x 7.5"W x 3.3"D (254mmH x 191mmW x 84mmD)
Reflector Dimensions(16' to 230'):	7.9" x 9.1" (200 x 230mm)
Reflector Dimensions (Beyond 230'):	15.7" x 18.1" (400 x 460mm)

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Operation:

KFBEAM1224 consists of a transmitter/receiver unit and a reflector. When smoke enters the area between the unit and the reflector it causes a reduction in the signal and, when the smoke level reaches the predetermined threshold, an alarm is activated.

KFBEAM1224 has four standard sensitivity selections along with two Acclimate settings. When either of the two Acclimate settings are selected the detector will automatically adjust its sensitivity using advanced software algorithms to select the optimum sensitivity for the specific environment.

ORDERING INFORMATION

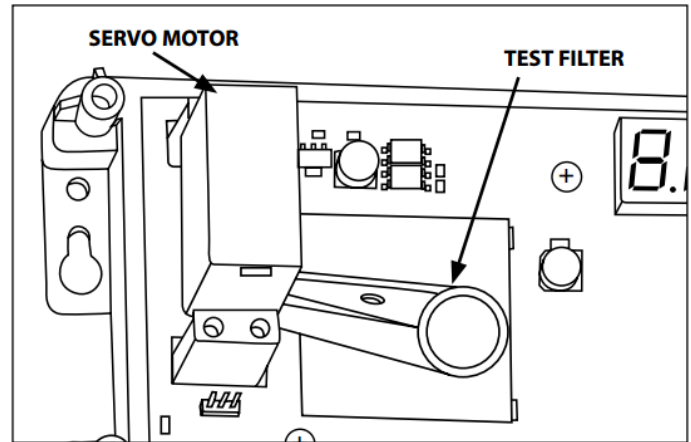
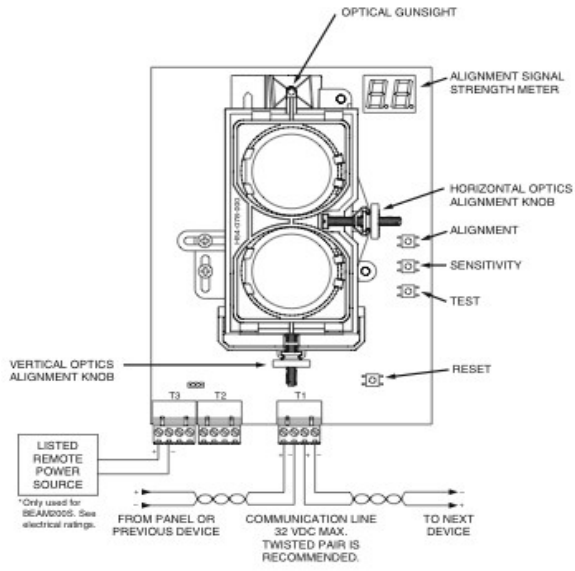
KCi #	Model #	Description
84127	KFBEAM1224	Beam Detector—Conventional, Single-Ended, includes 8”
84128	KFBEAM1224S	Beam Detector—Conventional, Single-Ended, includes 8” Reflector & Integral Sensitivity Test
52821	KFBEAMLRK	Long Range Accessory Kit—Required for distances in excess of 70m/230ft, Includes Three (3) Additional Reflectors
52822	KFBEAMMMK	Multi-Mount Kit
52823	KFBEAMSMK	Surface Mount Kit
52828	KFBEAMHK	Heater Kit—for Beam Detector
52847	KFBEAMHKR	Heater Kit— for Beam Detector Reflector
52842	KFRTS451	Remote Test Station—Single-gang Mounting
52843	KFRTS451KEY	Remote Test Station—Keyed, Single-gang Mounting
84127-DTS		Specification Data Sheet

Kingfisher Company, inc., products must be used within their published specifications and must be PROPERLY specified, applied, installed, operated, maintained and operationally tested in accordance with their installation instructions at the time of installation and at least twice a year or more often and in accordance with local, state and federal codes, regulations and laws. Specification, application, installation, operation, maintenance and testing must be performed by qualified personnel for proper operation in accordance with all of the latest National Fire Protection Association (NFPA), Underwriters' Laboratories (UL), National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA), local, state, county, province, district, federal and other applicable building and fire standards, guidelines, regulations, laws and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).

NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Kingfisher Company, inc., standard terms and conditions

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DRAWINGS OR DIAGRAMS



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