



Kingfisher Company, inc.

Photoelectric Smoke Detectors



Features:

- Plug-in detector line, mounting base included
- Large wire entry port
- In-line terminals with SEMS screws
- Mounts to octagonal and single-gang back boxes, 4-square back boxes, or direct to ceiling
- Stop-Drop 'N Lock attachment to base
- Removable detector cover and chamber
- Built-in remote maintenance signaling
- Drift compensation and smoothing algorithms
- Simplified sensitivity measurement
- Wide-angle, dual-color LED indication
- Loop Testing via EZ walk feature
- Built-in test switch



Description:

Kingfisher Photoelectric smoke detectors offer a number of intelligent features to simplify testing and maintenance. Drift compensation and smoothing algorithms are standard with the Kingfisher Photoelectric smoke line to minimize nuisance alarms. 2-wire Kingfisher Photoelectric smoke detectors can generate a remote LED indicated maintenance signal when connected to the 2W-MOD2 loop test/maintenance module or a panel equipped with the Kingfisher Photoelectric smoke protocol. The SENS-RDR, a wireless device, displays the sensitivity of Kingfisher Photoelectric smoke detectors in terms of percent-per-foot obscuration.

Specifications:

Operating Voltage: Nominal:	12/24 V non-polarized
Minimum:	8.5 V
Maximum:	35 V
Maximum Ripple Voltage:	30% peak to peak of applied voltage
Standby Current:	2-wire: 50 μ A maximum average; 4-wire: 50 μ A maximum average
Maximum Alarm Current:	2-wire: 130 mA limited by control panel; 4-wire: 20 mA @ 12 V, 23 mA @ 24 V
Peak Standby Current:	2-wire: 100 μ A; 4-wire: n/a
Alarm Contact Ratings:	2-wire: n/a; 4-wire: 0.5 A @ 30 V AC/DC
Dimensions (including base):	5.3 inches (127 mm) diameter; 2.0 inches (51 mm) height
Weight:	6.3 oz (178 g)
Operating Temperature Range:	2W-B and 4W-B: 32°F to 120°F (0°C to 49°C); 2WT-B and 4WT-B: 32°F to 100°F (0°C to 37.8°C)
Operating Humidity Range:	0 to 95% RH non-condensing
Thermal Sensor:	135°F (57.2°C) fixed
Freeze Trouble:	2WT-B and 4WT-B only: 41°F (5°C)
Sensitivity:	2.5%/ft nominal
Input Terminals:	14 to 22 AWG
Mounting:	3½-inch octagonal back box/4-inch octagonal back box/Single-gang back box/4-inch square back box with a plaster ring or Direct mount to ceiling

ORDERING INFORMATION

KCi #	Model #	Description
84142	KF2WB	Smoke Detector—Photoelectric, Plug-In Style, with 2-Wire Base
84143	KF2WTB	Smoke Detector—Photoelectric, with 135 Degree Fixed Temp Thermal Sensor, Plug-In Style with 2-Wire Base
84144	KF4WB	Smoke Detector—Photoelectric, Plug-In Style, with 4-Wire Base
84145	KF4WTB	Smoke Detector—Photoelectric, with 135 Degree Fixed Temp Thermal Sensor, Plug-In Style with 4-Wire Base
84146	KF2WTAB	Smoke Detector—Photoelectric, with 135 Degree Fixed Temp Thermal Sensor, Plug-In Style with 2-Wire Sounder Base
84147	KF2WTRB	Smoke Detector—Photoelectric, with 135 Degree Fixed Temp Thermal Sensor, Plug-In Style with 2-Wire Relay Base
84148	KF4WTAB	Smoke Detector—Photoelectric, with 135 Degree Fixed Temp Thermal Sensor, Plug-In Style with 4-Wire Sounder Base
84149	KF4WTRB	Smoke Detector—Photoelectric, with 135 Degree Fixed Temp Thermal Sensor, Plug-In Style with 4-Wire Relay Base
84150	KF4WTARB	Smoke Detector—Photoelectric, with 135 Degree Fixed Temp Thermal Sensor, Plug-In Style with 4-Wire Sounder/Relay Base
84151	KF4WIT4RB	Smoke Detector—Photoelectric, with Isolated 135 Degree Fixed Temp Thermal Sensor, Plug-In Style with 4-Wire Sounder/Relay Base
84142-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

Kingfisher Company, inc. 81 Old Ferry Road - Lowell, MA 01854
 Phone: 978-596-0214 Fax: 978-596-0217 www.kfci.com