

KC2-H-CD Two-Wire Conventional Heat Detector

STANDARD FEATURES

- **Dual Rate-of-Rise and Fixed-Temperature Sensor**
- **Compatible with Kidde Fire Systems AEGIS™-PHX, AEGIS™ 2.0 and AEGIS™-XLT Conventional Control Units**
- **Self-diagnostic capability continually monitors operation**
- **Remote LED indicator available**
- **Low-profile design blends into the ceiling**
- **FM Approved**
- **cULus Listed**
- **California State Fire Marshal Listed**

DESCRIPTION



The KC2 Heat Detector is a conventional low-profile, self-diagnostic, two-wire detector which uses a dual rate-of-rise and fixed-temperature heat sensor to determine when to signal an Alarm condition. The rate-of-rise function quickly detects a fast, flaming fire. The fixed-temperature function detects fire when the air temperature near the detector exceeds the alarm point of 135 °F (nominal). When used

in conjunction with photoelectric smoke detection, this detector is suitable for commercial and industrial environments and life safety protection.

COMPATIBLE BASES

The KC2-H-CD detector head attaches easily to either a KC2-SB Standard or KC2-RB Relay Base. Detector bases have wiring terminals that are accessible from the “room-side” after mounting the base to the electrical box.

- **Model KC2-SB/-SB4 Standard Base:** Connects the detector to circuit.
- **Model KC2-RB/-RB4 Relay Base:** Connects the detector to circuit and provides optional Relay functionality to the KC2 series detector. (The base's relay contacts automatically change state when detector goes into Alarm.)

TRIM SKIRT

A trim skirt is supplied with the KC2-SB4 and KC2-RB4 bases to help hide mounting tabs. The GSA-TS trim skirt may optionally be ordered for KC2-RB or KC2-SB bases if desired.

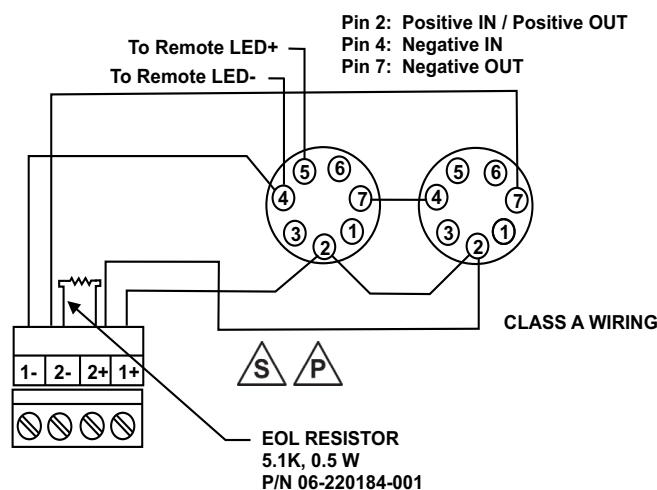
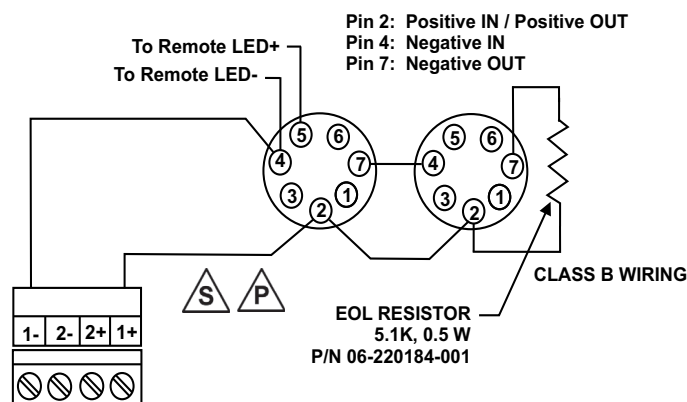
STATUS LED

KC2-H-CD detectors use an LED to indicate the detector's condition. A flashing green LED every 30 seconds indicates Normal condition. A Trouble condition is indicated by a flashing green LED every 5 seconds. A steady red LED indicates an Alarm condition. An optional Remote LED Indicator is available for convenient viewing.

INSTALLATION

KC2 Standard and Relay bases mount to:

- North American single-gang box
- Octagon box 3-1/2 in. (89 mm) by 1-1/2 in. (38 mm) deep
- Octagon box 4 in. (102 mm) by 1-1/2 in. (38 mm) deep
- European single-gang box 75 mm with 60.3 mm fixing centers
- BESA box with 60.3 mm fixing centers
- Square box 4 in. (102 mm) by 1-1/2 in. (38 mm) deep (KC2-SB4 or KC2-RB4 base required)



TECHNICAL SPECIFICATIONS

Electrical/Environmental	
Operating Voltage	6.5 to 33 VDC
Standby Current	88 μ A at 18 VDC 145 μ A at 33 VDC
Alarm Current	up to 60 mA maximum, if not limited by control unit
Remote LED Output Current	0.225 mA average (50 msec ON, 1 sec OFF)
Reset Voltage	2.5 V, maximum
Reset Time	1 second, minimum
Vibration Level	10 to 35 Hz, with an amplitude of 0.01 in.
Rate-of-rise	15 °F/min (8 °C/min)
Fixed Temperature	135 °F (57.2 °C)
Actual Alarm Point	129 to 141 °F (53.9 to 60.6 °C)
Response Time Index (evaluated by FM Approvals)	Quick
Operating Temperature Range	32°F to 100°F (0°C to 38°C)
Relative Humidity Range	0 to 93% noncondensing
Storage Temperature	-4 to 140 °F (-20 to 60 °C)
LED Indicator	Normal = Green every 30 seconds Alarm = Steady Red Trouble = Green every 5 seconds
UL Two-Wire Detector Compatibility Identifier	S10AR2
Compatible Bases	KC2-SB, KC2-SB4, KC2-RB, KC2-RB4
Maximum Spacing	50 ft. (15.2 m) centers
Wall Mounting: Distance from Ceiling	12 in. (305 mm) maximum

Physical	
Color	White head and base
Detector Head Dimensions	4.375 in. D x 2.25 in. H (11.10 cm x 5.70 cm)
Base Dimensions	4.4 in. D x 0.75 in. H (11.18 cm x 1.90 cm)
Total Height (head and base)	2.625 in. (6.67 cm) H

ORDERING INFORMATION

KC2-H-CD	Heat Detector, head only, two-wire
KC2-SB	Standard Base for KC2 Series Detectors with output for Remote LED, 4 in. diameter
KC2-SB4	Standard Base for KC2 Series Detectors with output for Remote LED, 4 in. diameter (with tabs for 4-in. square box; includes trim skirt)
KC2-RB	Relay Base for KC2 Series Detectors, 4 in. diameter
KC2-RB4	Relay Base for KC2 Series Detectors, 4 in. diameter (with tabs for 4-in. square box; includes trim skirt)
GSA-TS	Optional Trim Skirt for KC2 Series Bases
GSA-LED	Optional Remote LED Alarm Indicator (for use with KC2-SB and KC2-SB4 Standard Bases Only)
SIGA-RTA	Optional Removal Tool (attaches to standard telescoping pole)

NOTE: Refer to Kidde Fire Systems Datasheets K-70-300 and K-84-901 for smoke detector compatibility.

This literature is provided for informational purposes only. Kidde-Fenwal, LLC believes this data to be accurate, but it is published and presented without any guarantee or warranty whatsoever. Kidde-Fenwal, LLC assumes no responsibility for the product's suitability for a particular application. The product must be properly applied to work correctly. If you need more information on this product, or if you have a particular problem or question, contact KIDDE-FENWAL, LLC, Ashland, MA 01721.

Kidde-Fenwal, LLC
400 Main Street
Ashland, MA 01721, USA

KFI U.K. Limited
Station Road,
Bentham, Lancaster, LA2 7NA, UK

Kiddel Technologies
Survey No. 28/2, 44/2 and 45
Rasyani, Dandapta Road
Raigad Maharashtra-410207, India



EXPORT INFORMATION (USA)

Jurisdiction: EAR

Classification: EAR99

This document contains technical data subject to the EAR.

kiddefenwal.com | 508.881.2000

Kidde Fire Systems, Kidde Fire Protection and Fenwal Controls branded products are created exclusively by Kidde-Fenwal, LLC.

All other trademarks are the property of their respective owners.

2026 © Kidde-Fenwal, LLC | All Rights Reserved

P/N: K-70-360 Rev AC