

*Tested under
actual fire conditions*

Smok-Chek III™

*...a totally new concept in
smoke actuated door
opening protection.
Firemark® ...crusaders
for fire/life safety
door control.*



 **RIXSON·FIREMARK, INC.**

Fire/Life Safety Products



*Superior protection
at a significant
cost savings.*

Smok-Chek III™

FIREMARK®

Ionization detection... automatic release and door closing... in a single unit.

The first of a new generation of Firemark products to be fire test proved, Smok-Chek III offers the ultimate in life safety door control.

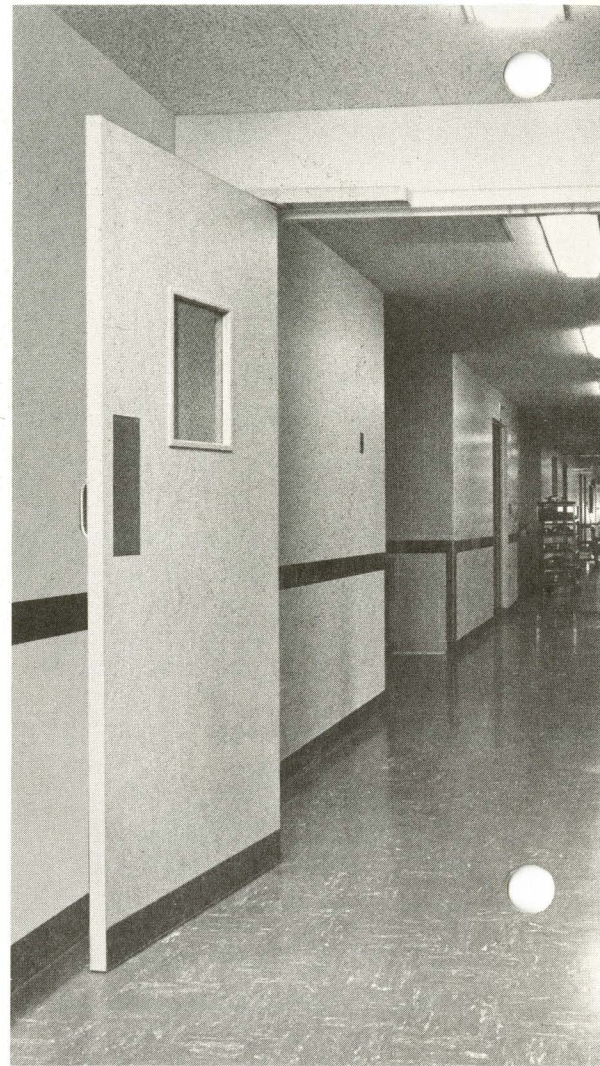
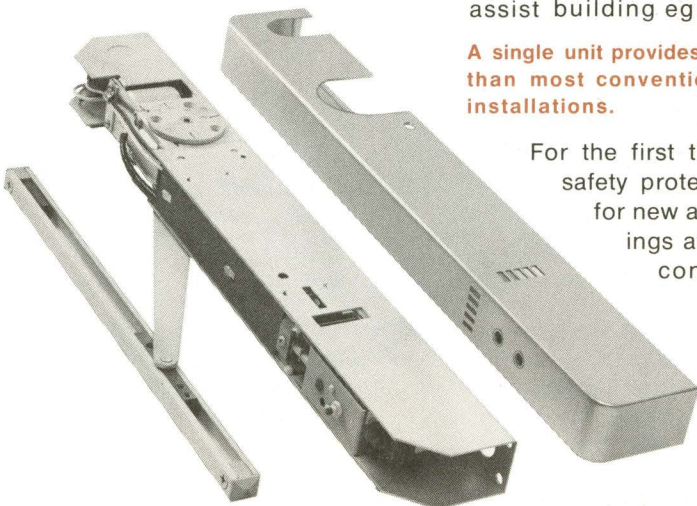
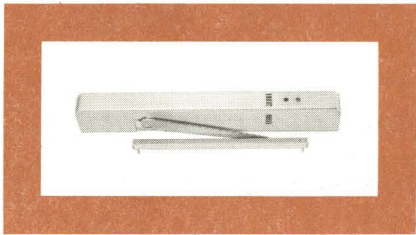
This unique device combines early warning ionization fire detection, door release and door closing in a single, economical unit. It takes the guesswork out of locating smoke detectors... slashes field wiring costs... eliminates need for separate detectors, door releases and closers.

Smok-Chek III is placed in the optimum detection position—on the door frame—to control smoke at the door opening. Reacting to the first traces of fire, it automatically closes doors to confine smoke to area of fire origin. Permits other doors to remain open (until their closing is required) to assist building egress.

A single unit provides greater protection than most conventional two-detector installations.

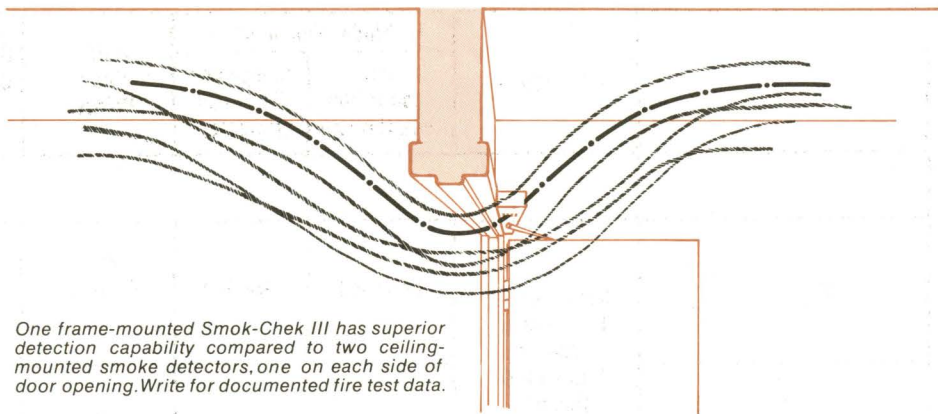
For the first time, superior life safety protection is available for new and existing buildings at less cost. Those concerned with human lives... must investigate Smok-Chek III.

- **Simple**
- **Reliable**
- **Economical**



SPECIAL FEATURES:

- U.L. listed.
- Special engineered flow-thru design for exceptional products of combustion (other than heat) detection.
- Automatically closes doors to prevent further spread of smoke.
- Proved in extensive tests conducted in conjunction with California State Fire Marshal's office.
- Reliably detects smoke on each side of door opening, regardless of fire origin.
- Normally holds door in convenient open position to facilitate traffic flow.
- For most door conditions with normal ceiling heights.
- Frame-mounted installation automatically places detector in optimum location.
- Once released (either electrically or manually) door becomes self-closing by a simple and readily obvious operation.



One frame-mounted Smok-Chek III has superior detection capability compared to two ceiling-mounted smoke detectors, one on each side of door opening. Write for documented fire test data.



- Eliminates all electrical outlet boxes and wiring for separate detectors and door releases.
- Meets all building code requirements for early warning detection and automatic door control.
- Surface applied for easy installation in new or existing buildings... spotting template assures accurate location.
- Warranted for two years.

TECHNICAL DETAILS:

- Independent door control or connection to any listed fire alarm system.
- One size accommodates any interior door up to 200 lbs., nominally 4' wide by 7' high.
- Surface or concealed wiring in 24 or 120 volt AC models.
- Mounts on standard 2" door frame, with doors hung on standard butts,

throw-clear hinges or intermediate pivots.

- Single-point hold-open at 85° thru 100° and 110° thru 150°. Special patient room model with two-point hold-open (intermediate approx. 35°).
- Separate adjustments for closing speed and closing force.
- Totally self-contained... handed.
- Self-supervising for detector component or line failure.
- Pulsed diode pilot lamp, visible from 50-60 ft. provides continuous visual indication of proper operation.
- Color coded independent snap-in connections for power input... separate barrier-type terminal strip for signal circuit... fused protection between detector and door release circuits.


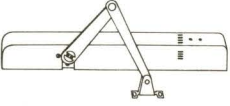


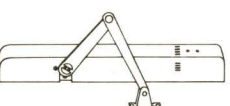
Available in sprayed aluminum and bronze, primed for painting, or in



plated finishes.

- Size: 22" x 3 1/4" x 2". Weight: 11 1/2 lbs.

Smok-Chek III™ SELECTION GUIDE:

	Door Types	Model Numbers*		Hold-Open Points	Systems Compatible	Maximum Door Size	Voltage	Template
		With Ionization Fire Detector	Companion Unit Less Detector					
Single Point Hold-Open								
	Cross Corridor Fire, Smoke Barrier Stairwell or Room to Corridor Doors	FM-1640	FM-940	85° Through 100°	Yes	Full Spring Adjustment Allows Use On Doors Up To 4' x 7' 200 lbs. Maximum	Specify 120 VAC Or 24 VAC	T-FM-1640 T-FM-940
		FM-1641	FM-941	110° Through 150°	Yes			T-FM-1641 T-FM-941
		Double Egress Doors	FM-1646	FM-946	90°			Yes
Two-Point Hold-Open								
	Hospital Patient Room Doors	FM-1644	FM-944	85° Through 100°, Intermediate Approx. 35°	Yes			T-FM-1644 T-FM-944
		FM-1645	FM-945	110° Through 150°, Intermediate Approx. 35°	Yes			T-FM-1645 T-FM-945

*For a pair of doors, only one unit with ionization detector is required. A companion unit (without detector or louvers should be specified) is provided for the second door leaf. U.L. listed. Specify hand of door.

SPECIFICATION GUIDE:

All automatic closing doors shall be equipped with Smok-Chek III U.L. listed units by Firemark (or equal) to automatically position smoke detector on door frame in combination with fail-safe* holder-release and door closer. All three functions (DETECTION, HOLDING and CLOSING) shall be an integral part of a single surface applied unit. Hold-open must be mechanically positive to prevent creeping; electrically operated valves are not acceptable.

The detector configuration shall be such that rapid detector response will be possible regardless of which side of the opening is exposed to the fire. The unit will have independent adjustments for closing force and closing speed; and will operate from either 120 VAC 60 hz (.067 amp) or 24 VAC 60 hz (.240 amp).

*Fail-safe: When power is removed door becomes self-closing.

The detector will be capable of providing a separate alarm and a separate trouble signal to any UL listed fire alarm control panel.

Electrical power to Smok-Chek shall be (concealed in the frame or surface mounted metallic raceway) and shall be coordinated by the architect in the general section of this specification. Separate conduit entrance for power and alarm circuits shall be provided.

An external (overhead stop or dome stop or wall bumper) shall be provided for each door leaf equipped with Smok-Chek. (To insure coordination of hardware, the overhead stop and Smok-Chek shall be supplied as a package by one manufacturer or the dome stop [wall bumper] shall be the responsibility of others).

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