



Exceder Series Notification Appliances



Description:

The Exceder™ Series of notification appliances feature a sleek modern design that will please building owners with reduced total cost of ownership. Installers will benefit from its comprehensive feature list, including the most candela options in one appliance, low current draw, no tools needed for setting changes, voltage test points, 12/24 VDC operation, universal mounting base and multiple mounting options for both new and retrofit construction.



Exceder HSR

Construction/Design:

The Exceder Series incorporates high reliability and high efficiency optics to minimize current draw allowing for a greater number of appliances on the notification circuit. All strobe models feature an industry first of 8 candela settings on a single appliance. Models with an audible feature 3 sound settings (90, 95, 99 dB). All switches to change settings, can be set without the use of a tool and are located behind the appliance to prevent tampering. Wall models feature voltage test points to take readings with a voltage meter for troubleshooting and AHJ inspection.

The Exceder Series of notification appliances feature a snap-on base that is designed to simplify the installation and testing of horns, strobes, and combination horn strobes. The separate mounting base can be pre-wired so circuit wiring can be fully tested before the appliance is installed and the surface is finished. Once the surrounding work is complete, the appliance can be simply installed by snapping it on the base.



Exceder STRC

Features:

- **Finger Slide Switches**
- **Voltage Test Points**
- **Multiple Voltages (12/24 VDC)**
- **3 Audible Settings (90/95/99 dB)**
- **8 Candela Settings:
15/1575/30/75/95/110/135/185**
- **Universal Mounting Base**
- **Low Current Draw**

King-Fisher Company, inc.

81 Old Ferry Road Lowell, MA 01854
Phone (978)596-0214 Fax (978)596-0217
Phone (888)687-5324(US) Fax (877)687-5324(US)
E-MAIL: sales@kfc.com
WEBSITE: www.kfc.com

Specifications:

Dimensions:	KFHS and KFST Wall Mount 5.24"H x 4.58"W x 2.19" D KFHN Wall Mount 5.24"H x 4.58"W x 1.60" D KFHSC and KFSTC Ceiling Mount 6.68"W x 2.63" D KFHNC Ceiling Mount 6.68"W x 1.50" D
Operating Voltage:	8 to 33 VDC
Field Candela Settings:	15, 15/75, 30, 75, 95, 110, 135, 185
Audible Settings:	90, 95, 99 dB
Temperature:	32°F to 120°F (0°C to 49°C)
Max. Humidity:	85%



Exceder HSRC



Exceder Universal Mounting Base



Voltage test points for quick troubleshooting and spot checking

Ordering Information:

Part No	Model No.	Description
80516	KFHSR	Horn Strobe (Red - Wall Mount)
80518	KFHSRC	Horn Strobe (Red - Ceiling Mount)
80517	KFHSW	Horn Strobe (White - Wall Mount)
80519	KFHSWC	Horn Strobe (White - Ceiling Mount)
81301	KFSTR	Strobe Only (Red - Wall Mount)
81304	KFSTRC	Strobe Only (Red - Ceiling Mount)
81302	KFSTW	Strobe Only (White - Wall Mount)
81303	KFSTWC	Strobe Only (White - Ceiling Mount)
80512	KFHNR	Horn Only (Red - Wall Mount)
80513	KFHNRC	Horn Only (Red - Ceiling Mount)
80514	KFHNW	Horn Only (White - Wall Mount)
80515	KFHNWC	Horn Only (White - Ceiling Mount)
Mounting Base		
	UMB	Universal Mounting Base included with all devices
Information Data Sheet		
	SXCDR	Specification Data Sheet

NOTE: All CAUTIONS and WARNINGS are identified by the symbol ⚠. All warnings are printed in bold capital letters.

⚠ WARNING: PLEASE READ THESE SPECIFICATIONS AND ASSOCIATED INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR APPLYING THIS PRODUCT. VISIT WWW.COOPERNOTIFICATION.COM OR CONTACT COOPER NOTIFICATION FOR THE CURRENT INSTALLATION INSTRUCTIONS. FAILURE TO COMPLY WITH ANY OF THESE INSTRUCTIONS, CAUTIONS OR WARNINGS COULD RESULT IN IMPROPER APPLICATION, INSTALLATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE, AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

General Notes:

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- Strobes are designed to flash at 1 flash per second minimum over their "Regulated Voltage Range".
- All candle ratings represent minimum effective strobe intensity based on UL Standard 1971.
- Series Exceder Strobe products are Listed under UL Standards 1971 and 464 for indoor use with a temperature range of 32°F to 120°F (0°C to 49°C) and maximum humidity of 93% (± 2%) UL 464 (85% UL 1971).
- Series Exceder horns are under UL Standard 464 for audible signal appliances (Indoor use only).

Low Current Draw = Fewer Power Supplies

Strobe Ratings per UL Standard 1971

		UL Max Current*													
		24 VDC / 24 FWR												12 VDC	
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
ST	8.0-33.0	0.057	0.070	0.085		0.135	0.163	0.182		0.205			0.253	0.110	0.140
STC	8.0-33.0	0.061		0.085	0.103	0.135	0.163		0.182		0.205	0.253		0.110	

Horn Strobe Ratings per UL 1971 & UL 464 at 24 VDC

		UL Max Current* at 99 dBA													
		24 VDC												12 VDC	
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
HS	8.0-33.0	0.082	0.095	0.102		0.148	0.176	0.197		0.242			0.282	0.125	0.159
HSC	8.0-33.0	0.082		0.102	0.141	0.148	0.176		0.197		0.242	0.282		0.125	

		UL Max Current* at 95 dBA													
		24 VDC												12 VDC	
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
HS	8.0-33.0	0.073	0.083	0.087		0.139	0.163	0.186		0.230			0.272	0.122	0.153
HSC	8.0-33.0	0.073		0.087	0.128	0.139	0.163		0.186		0.230	0.272		0.122	

		UL Max Current* at 90 dBA													
		24 VDC												12 VDC	
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
HS	8.0-33.0	0.065	0.075	0.084		0.136	0.157	0.184		0.226			0.267	0.120	0.148
HSC	8.0-33.0	0.065		0.084	0.120	0.136	0.157		0.184		0.226	0.267		0.120	

Horn Ratings per UL 464

Model	Regulated Voltage Range VDC	99 dB	95 dB	90 dB
HN	16-33.0	0.064	0.044	0.022
HNC	16-33.0	0.084	0.044	0.022
HN	8.0-17.5	0.047	0.026	0.017
HNC	8.0-17.5	0.047	0.026	0.017



* UL max current rating is the maximum RMS current within the listed voltage range (16-33 VDC for 24 VDC units). For strobes the UL max current is usually at the minimum listed voltage (16 VDC for 24 VDC units). For audibles the max current is usually at the maximum listed voltage (33 VDC for 24 VDC units). For unfiltered ratings, see Installation Instructions.

Architects and Engineers Specifications

The notification appliances shall be King Fisher Company, Inc.'s®Exceder™ Series KFHS Audible Strobe appliances, Series KFST Visual Strobe appliances and Series KFHN Audible appliances or approved equals. The Series KFHS and KFST Strobes shall be listed for UL Standard 1971 (Emergency Devices for the Hearing-Impaired) for Indoor Fire Protection Service. The Series KFHS and KFHN Audibles shall be UL Listed under Standard 464 (Fire Protective Signaling). All Series shall meet the requirements of FCC Part 15 Class B. All inputs shall be compatible with standard reverse polarity supervision of circuit wiring by a Fire Alarm Control Panel (FACP) with the ability to operate from 8 to 33 VDC. Indoor wall models shall incorporate voltage test points for easy voltage inspection.

The Series KFHS Audible Strobe and ST Strobe appliances shall produce a flash rate of one (1) flash per second over the Regulated Voltage Range and shall incorporate a Xenon flashtube enclosed in a rugged Lexan® lens. The Series shall be of low current design. Where Multi-Candela appliances are specified, the strobe intensity shall have 8 field selectable settings at 15, 15/75, 30, 75, 95, 110, 135, 185 candela for wall mount and 15, 30, 60, 75, 95, 115, 150, 177 candela for ceiling mount. The selector switch for selecting the candela shall be tamper resistant. The 15/75 candela strobe shall be specified when 15 candela UL Standard 1971 Listing with 75 candela on-axis is required (e.g. ADA compliance). Appliances with candela settings shall show the candela selection in a visible location at all times when installed.

The audible shall have a minimum of three (3) field selectable settings for dBA levels and shall have a choice of continuous or temporal (Code 3) audible outputs.

The Series KFHS Audible Strobe, KFST Strobe and Series KFHN Audible shall incorporate a patented Universal Mounting Base that shall allow mounting to a single-gang, double-gang, 4-inch square, 3.5-inch octal, 4-inch octal or 100mm European type back boxes. Two wire appliance wiring shall be capable of directly connecting to the mounting base. Continuity checking of the entire NAC circuit prior to attaching any notification appliances shall be allowed. Product shall come with Contact Cover to protect contact springs. Removal of an appliance shall result in a supervision fault condition by the Fire Alarm Control Panel (FACP). The mounting base shall be the same base among all horn, strobe, horn strobe, wall and ceiling models. All notification appliances shall be backwards compatible.

The Series KFHS and KFST wall models shall have a low profile measuring 5.24" H x 4.58" W x 2.19" D. Series KFHN wall shall measure 5.24" H x 4.58" W x 1.6" D. The Series KFHSC and KFSTC shall be round and have a low profile with a diameter of 6.68" x 2.63" D. Series KFHN ceiling shall have a diameter of 6.68" x 1.50" D.

When synchronization is required, the appliance shall be compatible with Wheelock®'s SM, DSM Sync Modules, Wheelock® Power Supplies or other manufacturer's panels with built-in Wheelock® Patented Sync Protocol. The strobes shall not drift out of synchronization at any time during operation. If the sync protocol fails to operate, the strobe shall revert to a non-synchronized flash-rate and still maintain (1) flash per second over its Regulated Voltage Range. The appliance shall also be designed so that the audible signal may be silenced while maintaining strobe activation when used with Wheelock® synchronization protocol.

Wall Appliances – UL Standard 1971, UL Standard 464, California State Fire Marshal (CSFM), ULC **Ceiling Appliances** – UL Standard 1971, UL Standard 464, California State Fire Marshal (CSFM), ULC