

FLEX SQUARE UNIT

SQUARE RECESSED EMERGENCY

Project:	
Type:	
Catalog #:	



INTERNAL SPECIFICATIONS

The FLEX SQUARE RECESSED is configured with two-wire 120-347VAC 60Hz input. Microprocessor controlled circuitry also includes brownout protection, battery and charge circuit monitoring, battery and LED failure detection and reverse polarity protection. Ni-MH batteries are standard.

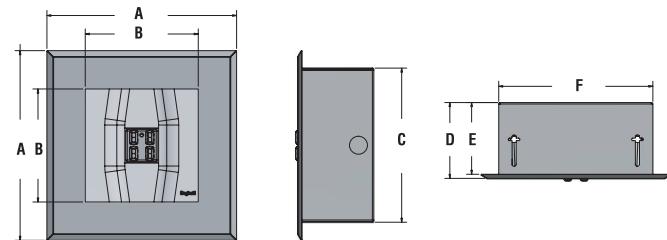
EXTERNAL SPECIFICATIONS

The compact, recessed design of the FLEX SQUARE RECESSED has a modern look that blends seamlessly in today's retail and commercial environments. The steel trim comes standard in a white powder coat with optional painted finishes. An external test switch allows maintenance personnel to quickly perform testing and determine the operational status by way of a multi-colored diagnostic LED.

LED TECHNOLOGY

The FLEX SQUARE RECESSED is illuminated with four 2.5W Samsung LEDs. Under any operation, the FLEX SQUARE RECESSED delivers between 826 lm - 845 lm. Each pair of LEDs are laid out in parallel on the LED module so if one pair fails, the other will remain illuminated. A high-efficiency LED driver is used to maintain a constant output current to all LEDs. The LEDs are rated for >54,000 hours at L80.

DIMENSIONS (in, mm.)



Series	A	B	C	D	E	F
FLX-S	9.25" 235mm	5.5" 140mm	7.5" 191mm	3.75" 95mm	3.5" 127mm	7.5" 191mm

INSTALLATION

The FLEX SQUARE RECESSED is designed for recessed mounting. Once the recessed housing is secured to the stud, the unit is held in place by torsion springs. The FLEX SQUARE RECESSED is suitable for use in non-IC installations only.

ORDERING LOGIC

Series	Operation	Voltage	Options
FLX-S	AC (AC Only - Normally on)	120-347V	AT (auto-test)
	EM (Emergency - AC fail only)		120MIN (120 min. emergency)
	SP ¹ (Self-powered - Normally on/EM backup)		CC (custom color - specify)

NOTE 1: Unit is always on and cannot be switched on and off.

MECHANICAL SPECIFICATIONS

The FLEX SQUARE RECESSED features a universal mounting pattern and key hole slots are stamped on the backplate. Surface mount conduit entry knockouts are also provided. The FLEX SQUARE RECESSED is for indoor ceiling and wall recess installations.

BATTERY SPECIFICATIONS

The FLEX SQUARE RECESSED EM and SP versions come standard with a Ni-MH battery pack that provides a minimum of 90 minutes emergency duration. Optional 120 minute Ni-MH batteries are available. The battery operating temperature is from 50°F up to 104°F (10°C to 40°C).

The FLEX SQUARE RECESSED utilizes a high-efficiency two stage charger providing precise float voltage control with low voltage disconnect protection. Program controlled trickle charge current is provided by the charging unit in order to maintain the optimum performance of the Ni-MH battery. All components used in the circuitry are temperature compensated. The charger also has brownout and short circuit protection. Charger status is easily determined via a multi-colored diagnostic LED indicator which displays AC/ON and High Charge. An external push button test switch allows maintenance personnel to quickly activate any manual tests on the fixture.

LENSES

The FLEX SQUARE RECESSED is supplied with 3 lenses for a choice of distribution patterns. These custom designed lenses are constructed of optical grade polycarbonate. The symmetrical ceiling distribution is suitable for use in open areas with spacing of up to 28' on center. The asymmetrical ceiling distribution is designed for use in hallways and corridors with spacing of up to 55' on center. The asymmetrical wall distribution provides 35' on center with a 6' wide path of egress. For AC and SP operations, both clear and frosted lenses are provided.

AC input ratings

Voltage (VAC)	Voltage (VAC)	Wattage (W)	Rated Current (A)
AC	120/277/347	13.0/13.1/13.4	0.25/0.15/0.10
EM	120/277/347	4.5/5.0/5.1	0.15/0.10/0.05
SP	120/277/347	17.3/17.0/17.1	0.35/0.25/0.15

AUTOTEST

The FME auto-test system automatically performs one 5 minute discharge test monthly and every 6 months it performs two full discharge tests, 24 hours apart. This tests both full battery capacity and recharge capability. The information is communicated simply and intuitively to maintenance personnel via a single multi-color LED. A manual test feature is included when the auto-test option is selected. The manual test will run a 30 second, 15 minute or 90 minute test by pressing the correct sequence of the test switch.

OPERATION

The FLEX SQUARE RECESSED is available with a choice of operations; AC, EM and SP. They have all achieved a truly universal AC input with a voltage design of 120 to 347VAC. SE & SA come with Ni-MH batteries & optional Auto-test and self-diagnostics circuitry. Under HT operation, the unit is normally-on and does not illuminate under an AC failure. Under EM operation, the unit is normally off & will illuminate under an AC failure only. SP is normally-on under normally utility power and the charging circuit maintains the battery at full capacity. When AC power fails the unit will automatically provide emergency light.

FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

WARRANTY

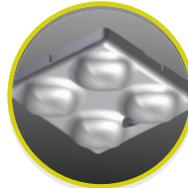
The FLEX SQUARE RECESSED comes with a 5-year factory warranty. Deliberate damage, misuse and/or improper installation effectively cancel the warranty.

LENS DISTRIBUTION PATTERNS

Asymmetrical Wall



Symmetrical Ceiling



Asymmetrical Ceiling

