LSL 24/7
LIFE SAFETY LIGHTING

Job Name:

Type:

Part #:

Notes:

LSM13

Internal: Specification grade unit, available with 6, 12 and 24 volt battery configurations, designed with two stage charging. The charging system offers superior performance and energy efficiency with solid state transfer, supplied with 120/277V.

External: Constructed with a 20 gauge steel cabinet. Terminal connectors allow for larger gauge wires to be connected for remote loads. White finish is standard (black and custom colors optional). The unit is configured with two top mounted heads standard. Lamp head options include: PAR36 (LR), PAR18 (SR), MR16 (BTMR) and TESTA square LED heads. Universal mounting pattern and key hole slots are stamped on the back and conduit knockouts on the sides of each unit.

Emergency Heads: Supplied standard with two [2] top mounted emergency lamp heads with incandescent or LED lamps. LED lamp head options include: thermoplastic LR PAR36 and SR PAR18 styles and die-cast aluminum BTMR MR16 and square TESTA lamp head styles. MR16 LED lamps, LR with sealed beam LED, SR thermoplastic LED heads and TESTA die-cast aluminum square lamp heads. LR and BTMR heads feature a unique locking twist collar that securely holds the lens and facilitates quick and easy re-lamping. Lamp heads can be mounted either on the top or on the sides of the unit allowing for up to four [4] heads to be mounted on the largest units (2 top, 2 sides).

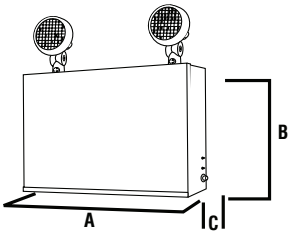
Electrical:
BATTERY: Designed with a maintenance-free, sealed valve regulated lead acid or nickel-cadmium battery that provides a minimum emergency duration of 90 minutes . Recharge time is less than 48 hours. The operating temperature range is 10°C to 45°C.

CIRCUIT: Utilizes a high-efficiency two stage charger providing precise float voltage control with low voltage disconnect protection. 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 dual diagnostic LED display which indicates AC/ ON and High Charge. An external push button test switch allows maintenance personnel to quickly determine the operational status of the unit and lamp load. The charger also has brownout and short circuit protection.

Mechanical: Constructed with a 20 gauge steel cabinet in a white powder coat finish, other colors and custom color matching are available. Universal mounting pattern and key hole slots are stamped on the back and conduit knockouts on the sides of each unit.

Autotest System: Performs one 5 minute discharge test monthly. Every 6 months two 90 minute discharge tests are performed. This tests both full battery capacity and recharge capability, as required by the fire code. The information is communicated simply and intuitively to maintenance personnel via a single multi-color LED. Includes 0, 5,10 or 20 minute time Autotest delay function to allow HID lighting to restrike. IRT one button press tests unit for 90 minutes per code.

Dimensions (in,mm)



Unit Size	A	B	C
(6V 120W)	13.5" (343mm)	10 1/8" (257mm)	4 1/4" (105mm)
(6V 200W) (12V 140W)	13" (330mm)	10 1/8" (257mm)	8 1/2" (216mm)
(12V/ 24V 200W-360W)	18 1/8" (460mm)	10 1/8" (257mm)	8 1/2" (216mm)

Head	Height	Width
BTMR	3.5"	2.25"
LR	5.88"	4.75"
SR	4.25"	2.75"
TESSQ	7"	4.25"

Warranty: 3-year factory warranty. Lamps are not covered under the warranty. Deliberate damage, misuse, improper installation effectively cancel the warranty.

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2026.05

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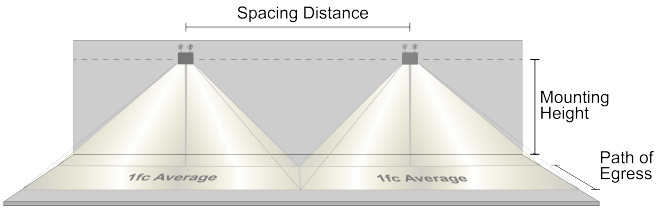
Ordering Information

EXAMPLE: LSM13 12140 2LR9W AT

Series	Operation	Pb-A (Capacity)	Ni-Cd[3] (Capacity)	Emergency Heads	Lamps	Options
LSM13	6 (V)	120 (6V)	130 (12V)	0 (no heads)	See lamp selection on next page	ACTB (terminal block AC)
	12 (V)	140 (12V)	200 (12V, 24V)	1LR (single PAR36)		AM (ammeter)
	24 (V)	160 (12V)		2LR (double PAR36)		AT (autotest)
		180 (12V)		3LR (triple PAR36)		BLK (black)
		200 (6V)		1BTMR (single, MR16)		BZ (buzzer)
		280 (24V)		2BTMR (double, MR16)		CC (custom color- specify)
		360 (12V, 24V)		1SR (single LED module)		DCTB (terminal block DC)
				2SR (double LED module)		FAI[1] (fire alarm interface)
				1TESSQ (single, TESTA)		IRT[2] (infrared testing)
				2TESSQ (double, TESTA)		LC (line cord set, 120V only)
						NC[3] (Ni-Cd)
						TD[4] (time delay - specify 5, 10, 15 min)
						TP (tamper proof screws)
						VM (voltmeter)

NOTE 1: Specify type of fire alarm signal: normally open, normally closed or 6, 12, 24VDC (specify voltage used)
NOTE 2: HHC (hand held controller for IRT) should be ordered seperately (item code: 476000021)
NOTE 3: For nickel-cadmium battery, select NC from options and capacity from Ni-Cd column
NOTE 4: Must specify input voltage and time delay (10 min standard)

Spacing



Model	Lamp Type	Mounting Height	On-Center Spacing (multiple fixtures)	Path of Egress
LSM13	2W LED	7.5 ft	45	3 ft
LSM13	5W MR16-LED	7.5 ft	65	3 ft
LSM13	7W MR16-LED	7.5 ft	80	3 ft
LSM13	TESTA HEAD	7.5 ft	65	3 ft

Disclosure: Spacing is measured in lab conditions with an assumed open space, no obstructions and reflection rates of 80 (ceiling)/50 (walls)/20 (floor). Actual spacing may vary depending on what environment the fixture is installed in.

	6V	12V	24V
Incandescent[1]	7.2, 9W	9, 12, 18W	9, 18W
Quartz Halogen (Q)[2]	12W	12, 20W	N/A
MR16 LED[3]	5, 7W	2, 5, 7W	5, 7W
TESTA[4]	N/A	5, 9, 14, 30W	5, 9, 14, 30W
Sealed Beam LED[5]	N/A	6W	6W

NOTE 1: Available in LR lamp heads (ex: 2LR9W) and SR lamp heads (ex: 2SR18W)
NOTE 2: Available in LR lamp heads (ex: 2LR12Q) and SR lamp heads (2SR20Q)
NOTE 3: Available in SR lamp heads (ex: 2SR7WLED) and BTMR lamp heads (ex: 2BTMR2WLED)
NOTE 4: Nomenclature example: 2TESSQ9W
NOTE 5: Available in LR lamp heads (ex: 2LR6WLEDSB)

Model Rating Guide Ni-Cd (Capacity)

Model	Input Voltage	Wattage Rating 90 Minutes
LSM13 12130	12	130
LSM13 12200	12	200
LSM13 24200	24	200

Model Rating Guide Pb-A (Capacity)

Model	Input Voltage	Wattage Rating 90 Minutes
LSM13 6120	6	120
LSM13 6200	6	200
LSM13 12140	12	140
LSM13 12160	12	160
LSM13 12180	12	180
LSM13 12360	12	360
LSM13 24280	24	280
LSM13 24360	24	360

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