

Lightalarms



Industrial Series
Life safety equipment

by ABB

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Severe™ XV & XVE Series

NEMA-4X, vandal resistant and harsh environment exit sign



The Severe™ XV Series exit sign is a part of the Severe™ family of NEMA-4X rated emergency lighting products. The Severe™ family offers complete emergency lighting solutions for commercial and industrial environments where protection against humidity, dust, water infiltration and the risk of vandalism are specification criteria. These products deliver state-of-the-art illumination in a visually appealing package.

Construction

- Full gasketed NEMA-4X housing
- Frame: polyvinyl chloride enclosure, fully gasketed around the lens, backplate and canopy to prevent water infiltration
- Faceplate: heavy-duty, vandal-resistant polycarbonate
- Backplate: heavy aluminum
- Comes with both Phillips head and tamper-proof screws
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons
- Choice of finishes: white, black or gray

Mounting

- Surface mount applications
- Ceiling and wall mount are NEMA-4X
- End and pendant mount are not NEMA-4X
- Canopy included for end or ceiling mount applications
- Universal J-box mounting
- ½ inch conduit entry on top and sides

Special Wording Panels

Available. Contact your sales representative with your design requirements

Housing/Face color



Black



White



Gray



Aluminum

The Severe™ NEMA-4X Rated and NSF Certified Family



Severe™ XV12E & XV24E
Combo series



Severe™ V
Battery unit



Severe™ ELF650
Remote series

Electronics

- Magnetically operated test switch
- Standard Improved Diagnostics (non-audible)
- Optional Nexus® monitoring system
- 120/277 60Hz

Approvals

- UL 924 listed
- UL listed for wet and damp location
50°F to 104°F (10°C to 40°C)
- UL listed for cold weather option-40°F to +104°F
(-40°C to +40°C)
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards

Warranty (subject to proper installation and maintenance)

Five-year limited warranty

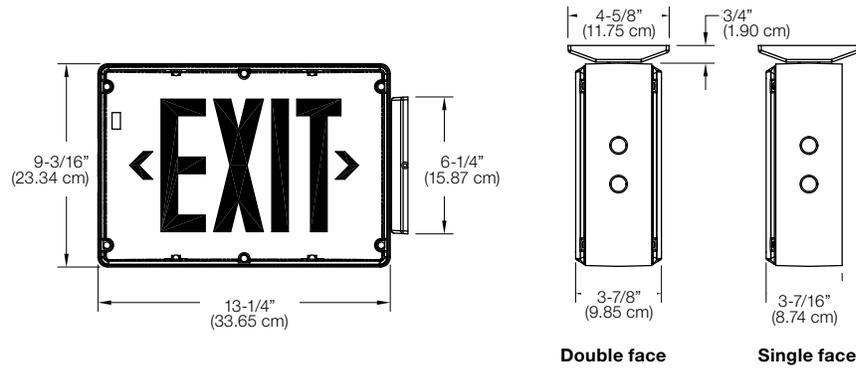
Detailed warranty terms located on [page 182](#) or online at: www.lightalarms.com

nexus

NEMA-4X



Dimensions (Dimensions are approximate and subject to change):



Power consumption chart

Model	AC Specs	DC Specs
AC-Only	120-277VAC, 50/60Hz (1.2W)	-
AC/DC	120-277VAC, 50/60Hz (1.2W)	6 to 24VDC (Less than 1.5W)
Self-Powered	120-277VAC, 50/60Hz (3.7W)	Ni-Cd battery (Min. 90 minutes)

Accessories (Order as a separate item)

Description	Product code
Convert single face to double face, red (in the field)	DFKR-*
Convert single face to double face, green (in the field)	DFKG-*
Tamper-Proof Bit (extra)	690.0454-L

*Specify White (WT) or Black (BK) housing

Ordering format

Housing/ Face color	Series	Faces	Legend color	Diagnostic	Housing	Options
Blank = Black/Black	XV = AC-only	-1 = Single face	-R = Red	Blank = AC-Only models	-4X = NEMA-4X housing ²	Blank = No options
BW = Black/White	XVE = Self-powered	-2 = Double face	-G = Green	-D = Improved Diagnostics (non-audible, standard) ¹		-2 = Dual Circuit (120/120 or 277/277AC only) ³
BA = Black/Aluminum				-NEX = Nexus [®] wired ¹ (contact your sales representative)		-DC = AC/DC 6V to 24VDC ³
GB = Gray/Black				-NEXRF = Nexus [®] wireless ¹ (contact your sales representative)		-CW = Cold weather (Self-Powered -4°F to 104°F, -20°C to 40°C) (AC/DC -40°F to 104°F, -40°C to 40°C)
GW = Gray/White						-Y = Open face/special wording
GA = Gray/Aluminum						-CM = Pendant mount
WB = White/Black						
WW = White/White						
WA = White/Aluminum						

Example: BAXVE-1-R-D-4X-CW

¹ Available with Self-Powered models only.
² Wall or ceiling mount only
³ Not available with -NEX or -NEXRF, Nexus[®] option

Severe™ XV12E & XV24E Combination Series

NEMA-4X, vandal resistant and harsh environment combination unit



The Severe™ NEMA-4X Rated and NSF Certified Family



Severe™ XV exit series



Severe™ V battery unit



Severe™ ELF650 remote series

Construction

- Full gasketed NEMA-4X housing
- Faceplate: heavy-duty, vandal-resistant polycarbonate
- Backplate: heavy-duty aluminum
- Heads protected by clear polycarbonate lens
- Comes with both Phillips head and tamper-proof screws
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons
- Choice of finishes: white, black or gray

Lamp type

Choice of MR16 LED lamp voltages and wattages

Mounting

- Surface mount
- Canopy included for end or ceiling mount applications
- Universal J-box mounting
- ½ inch conduit entry on top and sides

Choice of battery

- XV12E model, Nickel-Cadmium battery, 6V-12W total battery capacity
- XV24E model, Nickel-Cadmium battery, 12V-24W total battery capacity

Special Wording Panels

Available. Contact your sales representative with your design requirements

Frame/Face plate color



Black



White



Electronics

- Magnetically operated test switch
- Standard Improved Diagnostics (non-audible)
- Standard 15 minutes time delay
- Optional Nexus® monitoring system
- 120/277 60Hz

Approvals

- UL 924 listed
- UL listed for wet and damp location
50°F to 104°F (10°C to 40°C)
- UL listed for cold weather option-40°F to +104°F
(-40°C to +40°C)
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards

Warranty (subject to proper installation and maintenance)

Five-year limited warranty

Detailed warranty terms located on [page 182](#) or online at: www.lightalarms.com

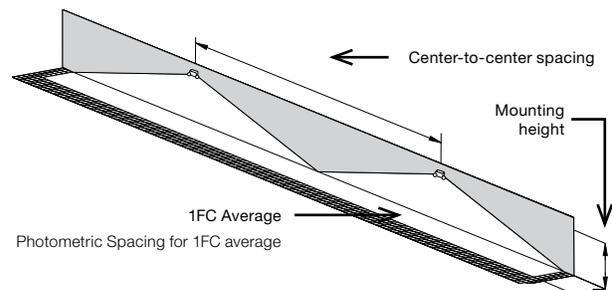
nexus™

NEMA-4X

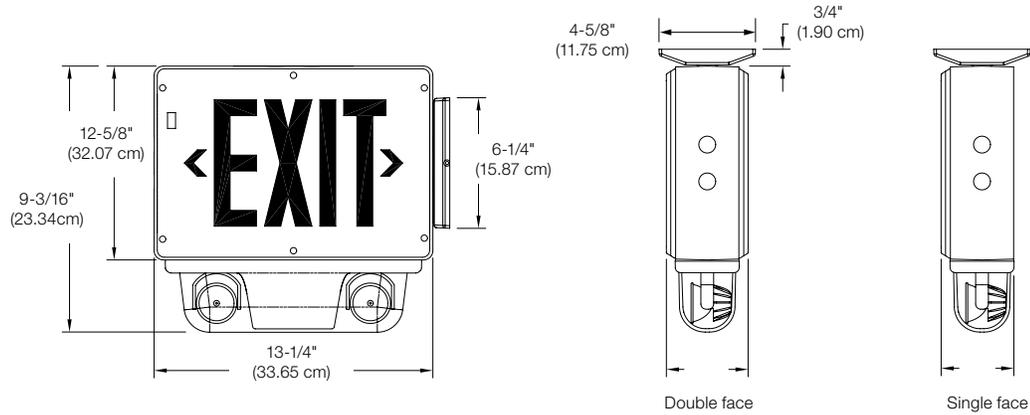


Photometric performance

Lamp	Spacing center-to-center (feet)	
	7 feet mounting height	15 feet mounting height
LD1	39'	34'
LD7	49'	39'
LD9	68'	54'
LD10	89'	80'



Dimensions (Dimensions are approximate and subject to change):



Power consumption chart & unit rating

Series	AC Specs			Battery	DC Specs			
	AC Input	Current Draw	Voltage		Battery capacity in watts			
					1-1/2 Hrs.	2 Hrs.	3 Hrs	4 Hrs
XV12E	120/277VAC, 50/60Hz	0.12/0.06A (Less than 13W)	6V	Nickel-Cadmium	12	9	-	-
XV24E		0.17/0.08A (Less than 19W)	12V		24	18	12	9
Models with CW4 Option		0.24/0.12A (Less than 25W)						

Accessories (Order as a separate item)

Description	Product code
Tamper-Proof Bit (extra)	690.0454-L

Ordering format

Housing/ Face color	Series/ Capacity	Faces	Legend color	Diagnostic
Blank = Black/ Black	XV12E = 6V-12W	-1= Single face	R = Red	D = Improved Diagnostics (non-audible, standard) ¹
BW = Black/White	XV24E = 12V-24W	-2= Double face	G = Green	DA = Improved Diagnostics (audible)
BA = Black/ Aluminum				NEX = Nexus® wired ¹
WW = White/ White				NEXRF = Nexus® wireless ¹
WB = White/ Black				
WA = White/ Aluminum				
GA = Gray/Aluminum				
GW = Gray/White				
GB = Gray/Black				

Housing	# of heads	Lamp type	Options
-4X = NEMA-4X housing ²	/0 = 0 head ³ /2 = Two heads	MR16 LED LD1 = 6V-4W LD7 = 12V-4W LD9 =12V-5W LD10 =12V-6W	-208V = 208VAC, 60Hz input -240V = 240VAC, 60Hz input -208V50HZ = 208VAC, 50Hz input -CW4 = Cold weather 120/277V (-40°F/-40°C) ⁴ -CM = Canopy Pendant Mount

Example: WWXV12E1RDA4X/2M6CW4

¹ CSA US Approved only, consult your sales representative
² A remote load must be connected
³ Not available with "D or DA" option
⁴ Single face only

Severe™ XVHZ & XVEHZ Series

Class I Division 2, Groups A, B, C and D, hazardous location exit sign



Severe™ Class I, Division 2 Family



Severe™ XVH Combo series



Severe™ VH Battery unit



Severe™ ELF651
Remote series

Construction

- Fully gasketed housing frame
- Faceplate: heavy-duty, vandal-resistant polycarbonate
- Backplate: heavy-duty aluminum
- Stainless steel tamper-proof screws
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons

Mounting

- Surface mount
- Junction box included for wall, end or ceiling mount applications
- 1/2 inch conduit knock-out entry on top and sides.

Special Wording Panels

Available. Contact your sales representative with your design requirements

Electronics

- Magnetic test switch
- Standard Improved Diagnostics (non-audible)
- Optional Nexus® monitoring system
- 120/277 60Hz

Approvals

- CSA-US (To UL 924 standards)
- Evaluated to the UL 844 standard for Class I Division 2, Groups A, B, C and D
- NEC, OSHA and NEMA compliant for above Classes and Groups
- Damp and wet location 50°F to 104°F (10°C to 40°C)
- Meets NFPA101 (Life Safety Code), NFPA 70-NEC and OSHA illumination standards

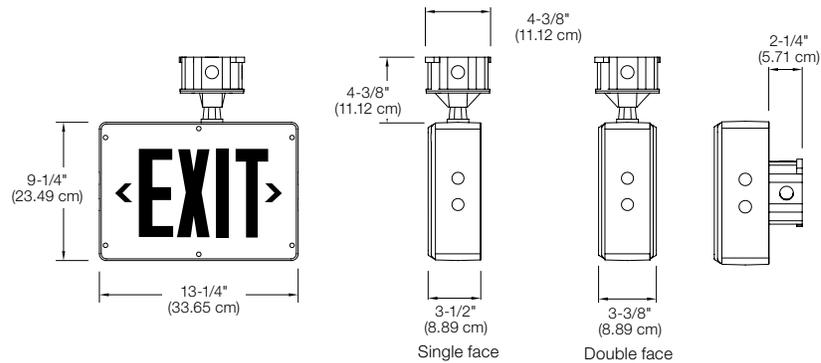
Warranty (subject to proper installation and maintenance)

Five-year limited warranty

Detailed warranty terms located on **page 182** or **online at: www.lightalarms.com**



Dimensions (Dimensions are approximate and subject to change):



Power consumption chart

Model	AC Specs	DC Specs
AC-only red	120-277VAC (Less than 2W)	-
AC-only green	120-277VAC (Less than 1.5W)	-
Self-powered red	120-277VAC (Less than 2W)	Nickel-cadmium battery (Min. 90 mins.)
Self-powered green	120-277VAC (Less than 2.5W)	Nickel-cadmium battery (Min. 90 mins.)

Accessories (Order as a separate item)

Description	Product code
Tamper-Proof Bit (Extra)	690.0454-L

Ordering format

Housing/ Face color	Series	Faces	Legend color	Diagnostic	Options
GG = Gray/Gray	XVHZ = AC-Only XVEHZ = Self-Powered	1 = Single face 2 = Double face	R = Red G = Green	Blank = AC-Only Models -D = Improved Diagnostics (included standard non audible) ¹ -NEX = Nexus® Wired ¹ (consult your sales representative) -NEXRF = Nexus® Wireless ¹ (consult your sales representative)	CW = Cold weather ²

Example: GGXVEHZ2R-DCW

¹ Available with Self-Powered models only
² Self-Powered models only

Severe™ XVH & XVH12N Combination Series

Class I Division 2, Groups A, B, C and D hazardous location combination unit



Severe™ Class I, Division 2 Family



Severe™ XVHZ & XVEHZ Exit series



Severe™ VH Battery unit



Severe™ ELF651 Remote series

Construction

- Fully gasketed housing frame
- Faceplate: heavy-duty, vandal-resistant polycarbonate
- Backplate: heavy-duty aluminum
- Vandal-resistant UV stabilized polycarbonate lamp cover
- Stainless steel tamper-proof screws
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons

Mounting

- Surface wall mount
- Backplate features universal knockouts for a standard 4 inch junction box, and four mounting eyelets used in wall mount applications
- 1/2 inch conduit entry on top and sides

Lamp type

- Choice of MR16 LED lamp voltages and wattages

Battery type

- XVH Model, Nickel-Cadmium battery, 6V-20W total battery capacity
- XVH12N Model, Nickel-Cadmium battery, 12V-24W total battery capacity

Special Wording Panels

Available. Contact your sales representative with your design requirements

Photometric performance

Lamp	Spacing center-to-center (feet)	
	7 feet mounting height	15 feet mounting height
LD1	39'	34'
LD7	49'	39'
LD9	68'	54'
LD10	89'	80'

Electronics

- Magnetic test switch
- Standard Improved Diagnostics (non-audible)
- Optional Nexus® monitoring system
- 120/277 60Hz

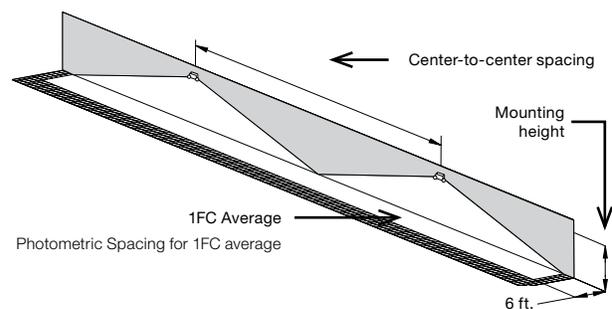
Approvals

- CSA-US (to UL 924 standards)
- Evaluated to the UL 844 Standard for Class I Division 2, Groups A, B, C and D
- NEC, OSHA and NEMA compliant for above Classes and Groups
- Damp and wet location 50°F to 104°F (10°C to 40°C)
- Meets NFPA101 (Life Safety Code), NFPA 70-NEC and OSHA illumination standards
- Temperature code T4A

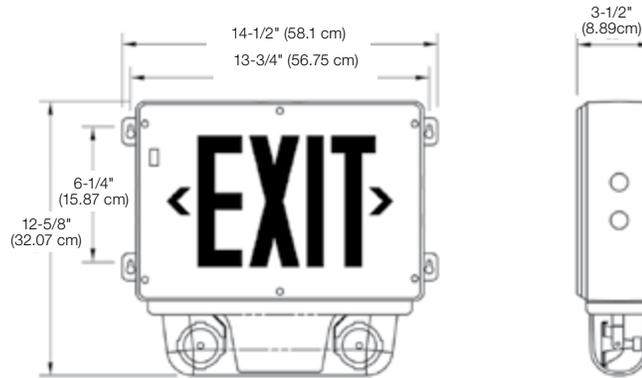
Warranty (subject to proper installation and maintenance)

- Five-year limited warranty

Detailed warranty terms located on [page 182](#) or online at: www.lightalarms.com



Dimensions (Dimensions are approximate and subject to change):



Power consumption chart

Series	AC input		Maximum		Stand-By	Watts to 87.5% of rated battery voltage ¹			
	(VAC)	Current (Amp)	Power (Watt)	Current (Amp)	Power (Watt)	1-1/2hrs	2 hrs	3 hrs	4 hrs
XVH	120/277VAC, 50/60Hz	0.15 / 0.07	16	0.09 / 0.03	8	20	15	-	-
XVH12N	120/277VAC, 50/60Hz	0.30 / 0.08	29	0.13 / 0.05	10	24	18	12	-

¹ National Electrical Code Specification

Accessories (Order as a separate item)

Description	Product code
Tamper-Proof Bit (Extra)	690.0454-L

Temperature codes

Lamp rating	Temperature code	Maximum Temperature	Replacement lamp part #
6V-4W LED	T4A	248°F (120°C)	580.0097
12V-4W LED	T4A	248°F (120°C)	580.0093
12V-5W LED	T4A	248°F (120°C)	580.0104
12V-6W LED	T4A	248°F (120°C)	580.0106

Note: Use qualified replacement lamps to avoid risk of over-heating

Ordering format

Housing/ Face color	Series	Legend color	Diagnostic	No. of heads	Lamp type
GG = Gray/Gray	Nickel-Cadmium battery XVH= 6V-20W XVH12N= 12V-24W	R = Red G = Green	D = Improved Diagnostics (included standard non audible) DA = Improved Diagnostics (audible) NEX = Nexus® wired (consult your sales representative) NEXRF = Nexus® wireless (consult your sales representative)	/0 = No head ¹ /2 = 2 heads	LD1 = 6V-4W MR16 LED LD7 = 12V-4W MR16 LED LD9 = 12V-5W MR16 LED LD10 = 12V-6W MR16 LED

Example: GGXVHR-D2LD1

¹ A remote load must be connected

X402 LED AC-ONLY, AC/DC LED Exit Sign

Class I, Division 1 & 2, Groups C and D. Class II, Division 1 & 2, Groups E, F and G, Class III



The EXP Family



Construction

- Heavy-duty 20 gauge steel, baked enamel grey finish
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons

Mounting

- Ceiling, wall or pendant
- 3/4 inch conduit entry

Approvals

- CSA-US (to UL 924 standards)
- Class I, Division 1&2, Groups C and D
- Class II, Division 1&2, Groups E, F and G
- Class III
- Complies with NEC, OSHA and NEMA for above classes and groups
- Suitable for wet and damp location
- Temperature code T6

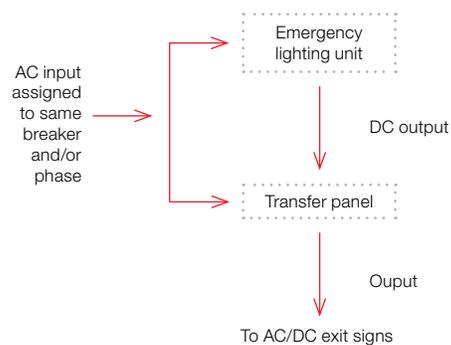
Warranty (subject to proper installation and maintenance)

Five-year full warranty

Detailed warranty terms located on [page 182](#) or online at: www.lightalarms.com

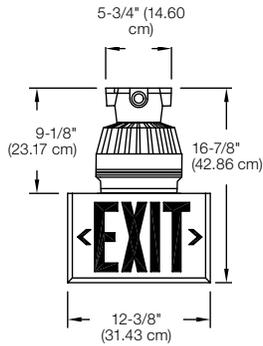
Transfer panel (to order separately with AC/DC exit signs)

- A transfer panel is only required for AC/DC hazardous location X402 exit signs that are under constant operation as required by code. Transfer panels are not designed to be installed/mounted in a hazardous or explosive area. Transfer panels are to be mounted remotely from these types of areas.
- Transfer panel available for up to 100W
- To order a transfer panel the following information is required:
 - 1) AC input: 120V or 277V
 - 2) DC voltage
 - 3) The total load wattage of all X402 lamp(s) to be supplied by transfer panel

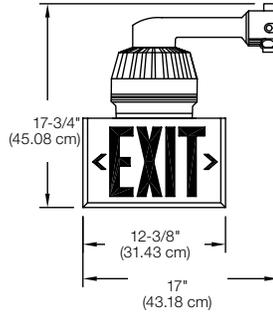


Dimensions (Dimensions are approximate and subject to change):

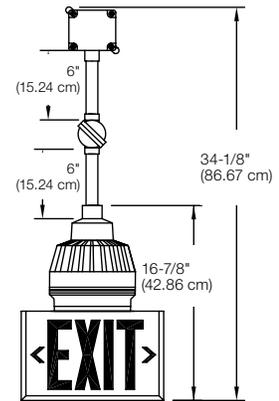
AC-Only and AC/DC Exit signs



Ceiling mount



Wall mount



Pendant mount

Power Consumption

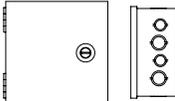
120/277VAC, 60 Hz maximum 0.3/0.15A

Ordering format – AC-Only or AC/DC exit sign face

	Faces	Series	Mounting	Lamp	Legend color
	Blank = Single face	X402= Exit series	C = Ceiling	LED6 = 6V-3W LED	R = Red
	2 = Double face		P = Pendant	LED12 = 12V-3W LED	G = Green
			W = Wall	LED24 = 24V-3W LED	
				LED120 = 120V-5W LED	

Example: AC-Only or AC/DC Exit sign: X402CLEd6R

Ordering format – Transfer panel (Required for the operation of AC/DC exit sign)

	AC voltage	DC voltage	Series	Watts	Version
	120 = 120V AC	-6 = 6V DC ¹	-TS	-25 = 25W	-LA
	277 = 277V AC	-12 = 12V DC		-50 = 50W	
		-24 = 24V DC		-75 = 75W	
				-100 = 100W	

Example: Transfer Panel (needed for AC/DC operation): 120-12-TS-25

¹ 50W maximum

EXP LED Series

Class I, Division 1 & 2, Groups C and D. Class II, Division 1 & 2, Groups E, F and G, Class III



Housing

- One-piece heavy gauge, corrosion resistant, copper-free cast aluminum
- Consists of a housing with provisions for up to two fixtures
- Spin-off gasketed cover prevents propagation of internally generated arcs
- Stainless steel vent/drain
- Lighting fixtures are heavy cast aluminum with Pyrex® lens
- Exit faceplate: heavy-duty 20 gauge steel, baked enamel grey finish
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons

Mounting

- Surface wall mount
- 3/4" NPT conduit entry on top and bottom of housing
- Single and double pendant mount heads include elbow swivel, conduit extension pipe (6" increments)

Electronics

- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- 120/277 60Hz

Lamp type

- Heads offer a choice of MR16 LED lamp wattages
- Exit sign uses a 3 watt LED lamp

Battery type

- 6V or 12V, Nickel-Cadmium battery



EXP6N & EXP12N
Battery unit -

Approvals

- CSA-US (To UL 924 standards)
- Manufactured in accordance with UL844, UL1203
- Class I, Division 1 & 2, Groups C and D
- Class II, Division 1 & 2, Groups E, F and G
- Class III
- NEC, OSHA and NEMA compliant for above Classes and Groups
- Temperature Code T6

Warranty (subject to proper installation and maintenance)

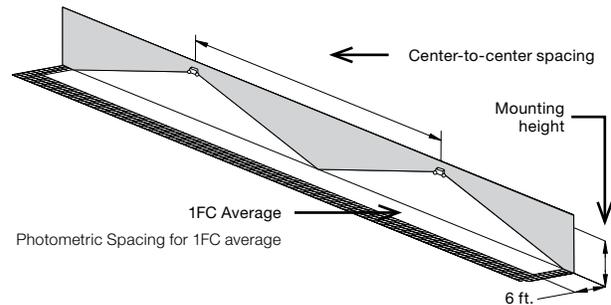
- Unit has a five-year warranty

Detailed warranty terms located on **page 182** or online at: www.lightalarms.com

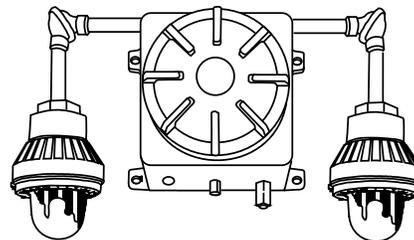


Photometric performance

Lamp	Spacing center-to-center (feet)	
	7 feet mounting height	15 feet mounting height
2 X LD1	43'	29'
2 X LD7	55'	36'
2 X LD9	67'	41'
2 X LD10	87'	62'



Dimensions (Dimensions are approximate and subject to change)



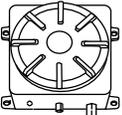
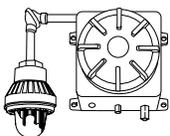
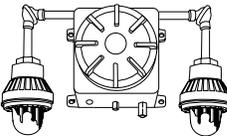
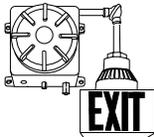
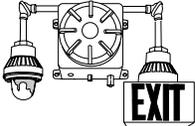
Housing: 12" X 12" X 9-1/2"
Mounting Lugs: 10" and
13-1/2" on center
Overall dimensions
(including fixtures): 38" X 38" X 10"

Power consumption chart

Series	Battery	Voltage	DC Specs				Units dual voltage ¹	AC Specs
			Battery capacity in watts ¹					
			90 Mins	2 Hrs	3 Hrs	4 Hrs		
EXP618	Nickel-Cadmium	6V	18	12	9	6	120/277VAC	0.55/0.25 A
EXP630		6V	30	20	15	10		
EXP1224		12V	24	18	12	9		
EXP1240		12V	40	30	20	15		

¹ All units 120/277 dual voltage, information based on wiring to specific voltage type

Standard configurations for EXP6N and EXP12N Series

Unit	Catalog number	Description
	EXP618	6 Volt self contained hazardous location emergency battery unit 18 watts of remote capacity
	EXP618-TS	6 Volt self contained hazardous location emergency battery unit 18 watts of remote capacity. Transfer switch included for use with remote Exit signs (maximum 5 Exits signs per TS)
	EXP1240E1LD9	12 Volt self contained hazardous location emergency battery unit with one head containing 2 X 12V 5W MR16 LED lamps, 30 watts of remote capacity
	EXP1240E1LD9-TS	12 Volt self contained hazardous location emergency battery unit with one head containing 2 X 12V 5W MR16 LED lamps, 30 watts of remote capacity. Transfer switch included for use with remote Exit signs (maximum 5 Exit signs per TS)
	EXP630E2LD1	6 Volt self contained hazardous location emergency battery unit with two heads, each containing 2 X 6V 4W MR16 LED lamps, 14 watts of remote capacity
	EXP630E2LD1-TS	6 Volt self contained hazardous location emergency battery unit with two heads, each containing 2 X 6V 4W MR16 LED lamps, 14 watts of remote capacity. Transfer switch included for use with remote Exit signs (maximum 5 Exit signs per TS)
	EXP618-TSX1-LR	6 volt self contained exit sign with 15 watts of remote capacity. Transfer switch included for use with integral exit sign and additional remote exit signs (maximum 5 exit signs per TS).
	EXP1230-E1LD10-TSX1-LR	12 volt self contained combination unit with 15 watts of remote capacity. Transfer switch included for use with integral exit sign and additional remote exit signs (maximum 5 exit signs per TS).

Ordering format

Series	DC Voltage	Capacity	No. of heads and lamps	Lamp wattage/Type	Battery options
EXP = Battery Unit/ Combo	6 = 6VDC	18 = 18W (6V only)	Blank = No emergency head -E1= Single head, two lamps -E2= Two heads, two lamps each	LD1= 6V-4W, MR16 LED	Blank= no transfer panel -TS= transfer panel (Required to supply remote exit sign only)
	12 = 12VDC	30 = 30W (6V only) 24 = 24W (12V only) 40 = 40W (12V only)		LD7= 12V-4W, MR16 LED LD9= 12V-5W, MR16 LED LD10= 12V-6W, MR16 LED	
		EXIT sign # of faces	EXIT sign lamp	EXIT sign letter color	Options
		Blank= No exit sign X1= Single-face exit	Blank= no exit sign -L= LED exit sign	Blank= No exit sign R= Red G= Green	-AG= Angle reflector -DM= Dome reflector -GD= Guard

Example: EXP630-E1LD1-TSX1-LR

XT Tritium™ Self-Luminous Series

Non-electric, uses no electrical power internally or externally to illuminate



Construction

- Housing and frame are made of ABS molding
- Faceplate lens is .13 thick acrylic
- Legend is non-glare polycarbonate
- Tamper-proof assembly with no removable fasteners
- 6" exit lettering legend, background available in red or green

Mounting

- Surface mount
- Single face model includes (1) housing, (1) faceplate and (1) canopy
- Canopy included for wall, end or ceiling mount applications
- Double face model includes (2) housings, (2) faceplates and (1) canopy
- Canopy included for end or ceiling mount applications

Finishes

- Choice of finishes: white, black or gray

Chevrons

- Two field-selectable direction chevrons

No power required

- Non-electric, uses no electrical power internally or externally to illuminate
- No wiring needed to operated
- No need to be illuminated by absorbing light from another source
- Spark-free, no filament, suitable for use in humid, corrosive or explosive environments

Illumination

- Provided by phosphor-coated borosilicate tubes filled with tritium gas
- Low energy beta emission of tritium striking the phosphor coating inside the glass tubes generates illumination for the life of the sign

Special wording panels

Not available

Approvals

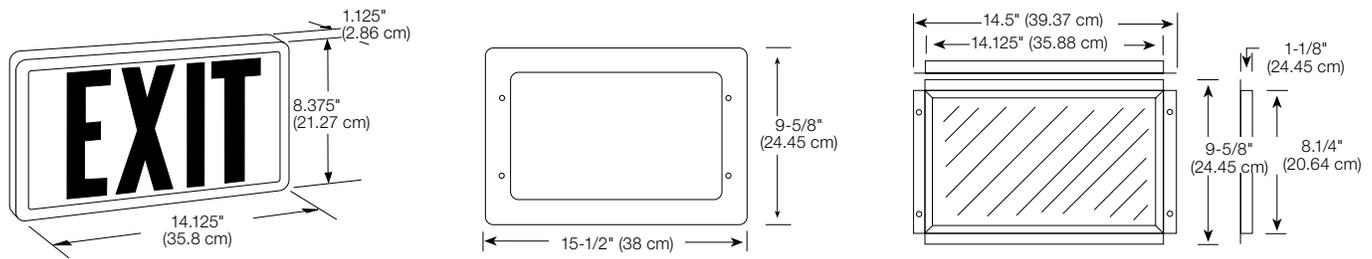
- NFPA Life Safety Code 101
- UL 924
- City of Los Angeles
- State of California
- Council of American Building Officials (ICBO, SBCCI)
- OSHA
- USNRC
- ISO 9001

Warranty (subject to proper installation and maintenance)

- Full warranty for life of sign
- 10-year sign= 10 full year warranty
- 20-year sign= 20 full year warranty

Detailed warranty terms located on **page 182** or online at: www.lightalarms.com

Dimensions (Dimensions are approximate and subject to change):



Mounting

Single face signs



Wall mount (flush wall or end)



Ceiling mount (flush ceiling)



Pendant mount

Double face signs



Wall mount (flush wall or end)



Ceiling mount (flush ceiling)



Pendant mount

Accessories (Order as a separate item)

Description	Product code
White pendant	PW-*
Black pendant	PB-*
Gray pendant	PA-*
Wire guard-wall mount	WG13-L
Wire guard-ceiling mount	WG5-L
Wire guard-end mount	WG15-L

*Specify length of pendant (12", 24", 36" etc.)

Ordering format

Series	Sign life	Housing color	Legend color	Options	New
XT= Single face 2XT= Double face	10= 10 Years 20= 20 Years	W= Off white ABS frame B= Black ABS frame GY= Gray ABS frame A= Aluminum frame	R= Red G= Green	-PC= Polycarbonate shield	-N= New version

Example: XT10WR-N

Severe™ Series

NEMA-4X, NSF, Vandal-Resistant housing 6V-18W & 12V up to 60W capacities
Lead-Calcium, Nickel-Cadmium or Nickel-Metal Hydride battery



The Severe™ XV Series Family



Severe™ XV
exit series



Severe™ XV
combo series



Severe™ ELF650
remote series

Housing

- Full gasketed NEMA-4X housing
- Vandal-resistant UV stabilized polycarbonate cover
- Comes with both Phillips head and tamper-proof screws

Mounting

- Universal J-box mounting
- Strut or I-beam installation bracket sold separately (order catalog number: PMK-E)

Lamp type

- Choice of MR16 LED lamp voltages and wattages

Electronics

- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Magnetic test switch
- Standard Improved Diagnostics (non-audible)
- Standard 15 minutes time delay
- Optional: Nexus® monitoring system
- 120/277 60Hz

Photometric performance

Lamp	Spacing center-to-center (feet)	
	7 feet mounting height	15 feet mounting height
LD1	39'	34'
LD7	49'	39'
LD9	68'	54'
LD10	89'	80'

Housing color



Black



White



Gray

Choice of Battery

- 6V or 12V Lead-Calcium battery
- 12V Nickel-Cadmium battery
- 12V Nickel-Metal Hydride battery

Approvals

- UL 924 Listed
- UL listed for wet and damp location 50°F to 104°F (10°C to 40°C)
- UL listed for cold weather option -40°F to 104°F (-40°C to 40°C)
- NSF certified for use in food processing plants
- NEMA-4X Rated

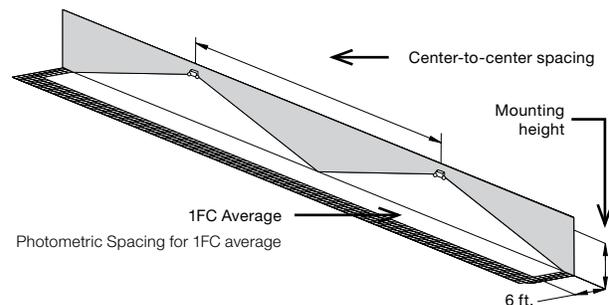
Warranty (subject to proper installation and maintenance)

Unit: five-year full warranty

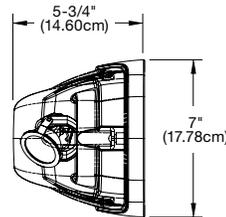
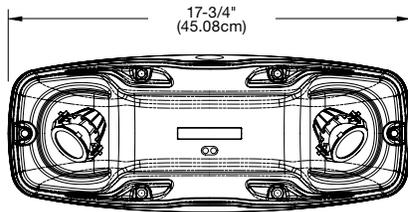
Detailed warranty terms located on [page 182](#) or online at: www.lightalarms.com

nexus™

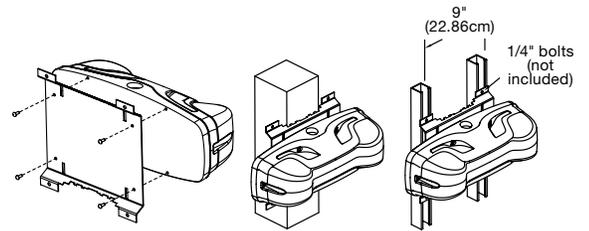
NEMA-4X



Dimensions (Dimensions are approximate and subject to change)



Universal mounting brackets



Power consumption & unit rating chart

Series	Battery	Voltage	DC Specs				AC Specs		
			Battery capacity (in watts)				Units dual voltage ¹	Current Maximum	Power Maximum
			90 Mins	2 Hrs	3 Hrs	4 Hrs			
VG1		6V	18	12	-	-			
V12G1	Lead-Calcium	12V	24	16	12	-	120VAC	0.2A	20W
V12G2		12V	36	24	20	14	277VAC	0.11A	20W
V12G3		12V	54	36	27	20			
V12G1-CW4	With cold-weather option	12V	24	Note 2	-	-	120/277VAC	0.4A/0.3A	60W
V12G2-CW4		12V	36		-	-			
V12N1	Nickel-Cadmium	12V	24	16	12	-	120VAC	0.2A	20W
V12N2		12V	40	30	20	15	277VAC	0.11A	20W
V12H1	Nickel Metal Hydride	12V	60	40	30	20			

¹ All units 120/277 dual voltage, information based on wiring to specific voltage type
² Dependent on lower ambient temperatures

Accessories (Order as a separate item)

Description	Product code
Bit for Tamper-proof screws	690.0454-L
Universal mounting bracket	PMK-L

Ordering format

# of heads	Series/Capacity	Lamp type	Housing color	Diagnostics	Options
2= Two heads	Lead-Calcium battery VG1= 6V-18W V12G1= 12V-24W V12G2= 12V-36W V12G3= 12V-54W Nickel-Cadmium battery V12N1= 12V-24W V12N2= 12V-40W Nickel-Metal Hydride battery V12H1= 12V-60W	MR16 LED Lamp LD1= 6V-4W LD7= 12V-4W LD9= 12V-5W LD10= 12V-6W	-B= Black -G= Gray -M= White	Standard Diagnostic -D= Improved Diagnostics, non-audible Optional Diagnostic -DA= Improved Diagnostics, audible NEX= Nexus® Wired (contact your sales representative) NEXRF= Nexus® Wireless (contact your sales representative)	Blank= No Options -T3= Time delay (15 minute) -CW4= Cold Weather -40°F to 104°F (-40°C to 40°C) ¹ -SMC= Surface ceiling mount

Example: 2V12G2/LD10-B-D-CW4

¹ - CW4 option only available with V12G1 & V12G2 models

SP Series

NEMA-4X, Severe-performance industrial battery unit for indoor or outdoor applications



Housing

- Compact gray fiberglass housing with captive screws
- NEMA-4X rated
- All external fasteners and hardware are constructed of stainless steel
- Die-cast aluminum LED heads

Mounting

- Simple and easy to install on walls, poles, columns, struts also on vertical
- Pole or column installation bracket sold separately (order catalog number: PMK1-L)
- ½ NPT conduit entry on top or side

Performance

- High temperature Lead-Calcium battery operates 32°F to 122°F (0°C to 50°C) and Nickel-Cadmium battery operates 50°F to 104°F (10°C to 40°C) ; optional cold-weather -40°F to 122°F (-40°C to 50°C)

- 6W, 10W and 15W high efficacy LED emergency heads outperform traditional 50W MR16-IR Halogen
- Innovative head design: four-LED and dual- driver provide illumination even in case of unexpected component failure

Electronics

- Infra-red remote control included in all models: allows testing the equipment without the need to climb a ladder. Distance range up to 30 ft. Universal, one remote control may test all the units on the job
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Standard Improved Diagnostics (non-audible)
- Optional: Nexus® monitoring system
- 120/277 60Hz

Approvals

UL 924 Listed

Warranty (subject to proper installation and maintenance)

Unit: five-year limited warranty

Detailed warranty terms located on **page 182** or online at: www.lightalarms.com



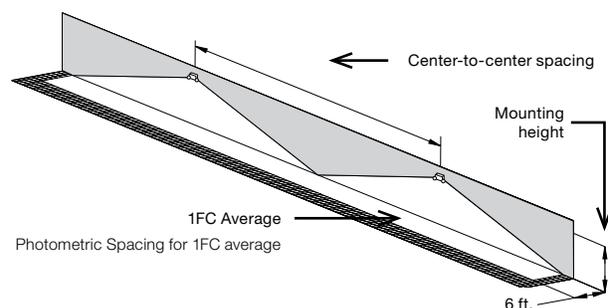
Photometry performance

Capable of being installed indoors or outdoors, the SP Series LED emergency lights deliver a stable and consistent illumination on the path of egress for a wide range of mounting heights. Depending on the required illumination levels need for the application, choose between three level of lumen output using a 6W, 10W or 15W head.

LED Head	Power	Total lumens	Outperform spacing of MR16 halogen lamp types
L6	6W	565	37W PAR36, MR16 Halogen (700 Lumens)
L10	10W	1000	50W PAR36, MR16 Halogen (950 Lumens)
L15	15W	1300	50W MR16-IR Halogen (1550 Lumens)

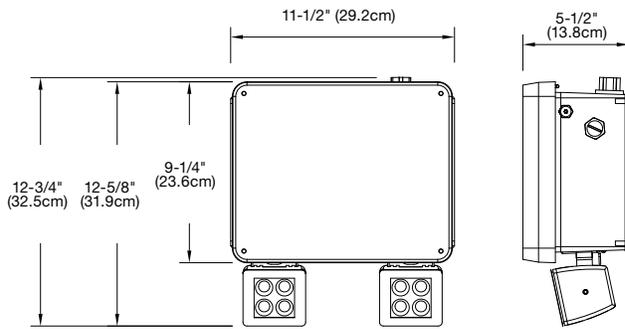
Spacing center-to-center (feet)

Mounting height	Lamp L6/6W, 565Lm	Lamp L10/10W, 1000Lm	Lamp L15/15W, 1300Lm
10 ft	80'	110'	140'
15 ft	70'	105'	135'
20 ft	60'	100'	130'
25 ft	50'	95'	120'

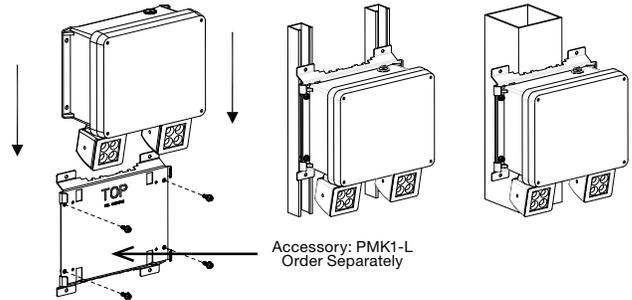


Industrial environment: Wall mounted equipment, reflectances: 10/10/10; 6-ft wide illumination path. Illumination as per NFPA101; Average: 1fc; Min: 0.1fc; Max/min < 40:1

Dimensions (Dimensions are approximate and subject to change)



PMK1-L Universal Mounting Bracket Installation



Power consumption chart: maximum current draw

Temperature	Specification
Standard temperature range	120/277VAC, 60Hz, 0.30/0.15A
Cold-weather option	120/277VAC, 60Hz, 0.70/0.35A

Classification for hazardous locations

Lamp rating	Temperature code	Maximum temperature	Replacement part number
		Nickel-cadmium Ta= 104°F/40°C	Lead-acid Ta= 122°F/50°C
L15 (15W)	Class I Division 2 Groups A, B, C and D	T3C	T3A
	Class II Division 2 Groups F and G; Class III	T5	T5
	Class I Division 2 Groups A, B, C and D		T4A
No heads	Class II Division 2 Groups F and G; Class III		T6

Unit rating chart

Series	Battery capacity in watts			
	90 minutes	2 Hrs	3 Hrs	4 Hrs
SPH12G3	30	20	15	10
SPH12G6	60	40	30	20
SPH12N4	40	36	24	18
SPH24N9	90	72	48	36

Note: the cold-weather option is only rated for 90 minutes.

Remote test control (included with unit)



Standard infrared remote test control included in all models: allow to test the equipment without need to climb a ladder. Functional up to 30 ft distance. Universal, one Remote Test Control may test all units on the job.

Ordering format

Series	Battery and Capacity	Number of heads	LED heads	Diagnostics	Option
SPH12	High Temperature Lead-Calcium G3= 12V-30W, High temperature Lead-Calcium battery, Temperature= 32°F to 122°F (0...50°C)	0= No head 1= One head 2= Two heads	L15= 12-24V, 15W (1300 Lumens)	Standard Diagnostic IDNA= Improved Diagnostics, non-audible ¹ Optional Diagnostic NID= No Improved Diagnostics, audible ¹ ID= Improved Diagnostics, audible ¹ NEX= Nexus® Wired (contact your sales representative) ¹ NEXRF= Nexus® Wireless (contact your sales representative) ¹	CW4 = Cold-weather -40°F (-40°C) ¹ T3 = Time delay 15 minutes RFI = Radio frequency interference filter
	SPH12	G6 = 12V-60W, High temperature Lead-Calcium battery, Temperature= 32°F to 122°F (0...50°C)			
SPH12	Nickel-Cadmium N4= 12V-40W, Nickel-Cadmium battery, Temperature= 50°F to 104°F (10...40°C)				
SPH24	N9 = 24V-90W, Nickel-Cadmium battery, Temperature= 50°F to 104°F (10...40°C)				

Example: SPH12N402L15ID

¹ Minimum load required: 20% of load capacity

SPRL Series Remote Fixture

NEMA-4X, Severe-performance remote for indoor or outdoor applications



Housing

- Lightweight polycarbonate gray housing with captive screws
- NEMA-4X rated
- All external fasteners and hardware are constructed of stainless steel
- Die-cast aluminum LED heads

Mounting

- Simple and easy to install on walls, poles, columns, struts also on vertical
- Pole or column installation bracket sold separately (order catalog number: PMK1-E)
- ½ NPT conduit entry on top or side

Performance

- 6W, 10W and 15W high efficacy LED emergency heads outperform traditional 50W MR16-IR halogen
- Innovative head design: four-LED and dual- driver provide illumination even in case of unexpected component failure

Approvals

- UL924 Listed
- Can be installed in wide temperature range: -40°F to 131°F (-40°C to 55°C)

Warranty (subject to proper installation and maintenance)

Unit: five-year limited warranty

Detailed warranty terms located on [page 182](#) or online at: www.lightalarms.com

NEMA-4X

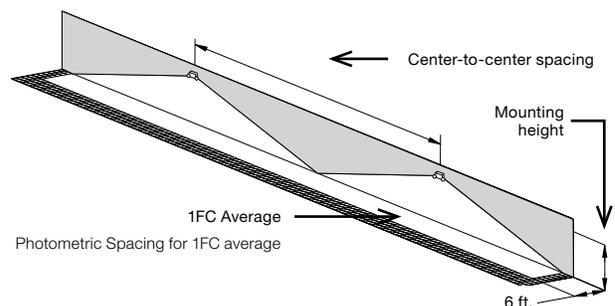
Photometry performance

Capable of being installed indoors or outdoors, the SPRL Series LED emergency lights deliver a stable and consistent illumination on the path of egress for a wide range of mounting heights. Depending on the required illumination levels need for the application, choose between three level of lumen output using a 6W, 10W or 15W head.

LED Head	Power	Total lumens	Outperform spacing of MR16 halogen lamp types
L6	6W	565	37W PAR36, MR16 Halogen (700 Lumens)
L10	10W	1000	50W PAR36, MR16 Halogen (950 Lumens)
L15	15W	1300	50W MR16-IR Halogen (1550 Lumens)

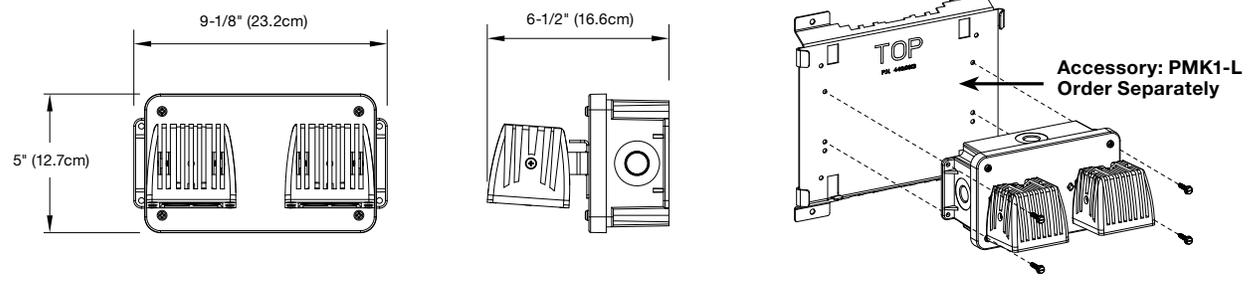
Spacing center-to-center (feet)

Mounting height	Lamp L6/6W, 565Lm	Lamp L10/10W, 1000Lm	Lamp L15/15W, 1300Lm
10 ft	80	110	140
15 ft	70	105	135
20 ft	60	100	130
25 ft	50	95	120



Industrial environment: Wall mounted equipment, reflectances: 10/10/10; 6-ft wide illumination path. Illumination as per NFPA101; Average: 1fc; Min: 0.1fc; Max/min < 40:1

Dimensions (Dimensions are approximate and subject to change)



Warning: The mounting column must be anchored at both ends: floor and ceiling.

Ordering format

Series	Number of heads	LED head
SPRL = Severe performance remote lightweight	Blank = Single head D = Double head	L6 = 12-24V – 6W (565 Lumens) L10 = 12-24V – 10W (1000 Lumens) L15 = 12-24V – 15W (1300 Lumens)

Example: SPRLDL6

SPH Series

Class I Division 2, Groups A, B, C and D, Class II Division 2 Groups F and G & Class III. NEMA-4X Severe-performance unit equipment for hazardous, damp and wet locations.



Housing

- Class I, Div. 2, Groups A, B, C & D, Class II Div. 2, Groups F & G, Class III
- Fiberglass light-grey housing with captive screws; outside hardware in stainless steel
- NEMA-4X protection grade against liquids and dust
- Compact size: 0.46 cubic feet

Mounting

- Simple and easy to install on walls, columns and struts
- For installation on columns use mounting bracket catalog number: PMK1-L (order separately)
- May be wired from top or side using conduit (1/2" NPT)

Performance

- Wide ambient temperature range (choice of battery types) *32°F to 122°F (0°C-50°C) high temperature Lead-Calcium battery *50°F to 104°F (10°C to 40°C Nickel Cadmium battery Optional cold-weather -40°F (-40°C) (available with 12V battery models only)
- High-efficacy LED emergency lamps outperform traditional 50W halogen lamps
- Innovative lamp design: four-LED and dual-driver provide illumination even in case of unexpected component failure

Testing option

- Infra-red remote control included in all models: allows testing the equipment without the need to climb a ladder. Distance range up to 30 ft. Universal, one Remote Control may test all the units on the job
- Non-Audible Improved Diagnostics and Self-test is standard in all models
- Optional: Nexus® monitoring system available

Approvals

- Listed UL924 and UL844 for hazardous locations: Class I Division 2, Groups A, B, C and D; Class II Division 2 Groups F & G and Class III; Rated NEMA-4X severe-performance for hazardous, damp and wet location.

Warranty (subject to proper installation and maintenance)

Unit: five-year limited warranty

Detailed warranty terms located on [page 182](#) or online at: www.lightalarms.com



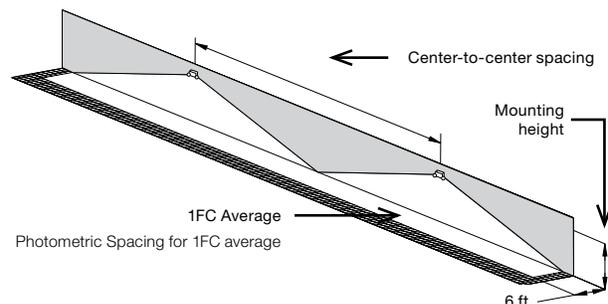
Photometry performance

Capable of being installed indoors or outdoors, the SPH Series LED emergency lights deliver a stable and consistent illumination on the path of egress for a wide range of mounting heights.

LED Head	Power	Total lumens	Outperform spacing of MR16 halogen lamp types
L15	15W	1300	50W MR16-IR Halogen

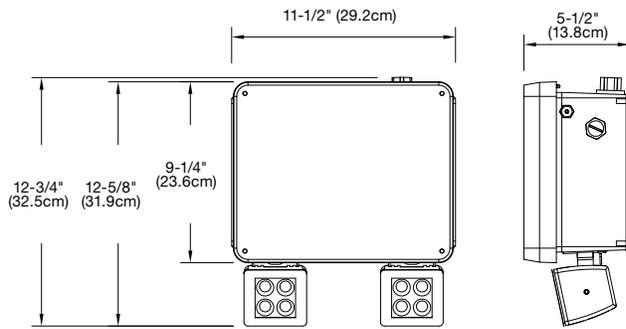
Spacing center-to-center (feet)

Mounting height	Lamp L15/15W, 1300Lm
10 ft	140'
15 ft	135'
20 ft	130'
25 ft	120'

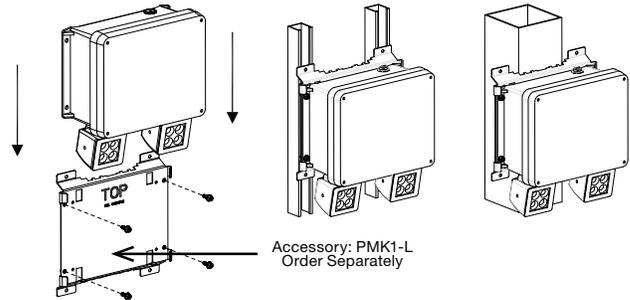


Industrial environment: Wall mounted equipment, reflectances: 10/10/10; 6-ft wide illumination path. Illumination as per NFPA101; Average: 1fc; Min: 0.1fc; Max/min < 40:1

Dimensions (Dimensions are approximate and subject to change)



PMK1-L Universal Mounting Bracket Installation



Warning: The mounting column must be anchored at both ends: floor and ceiling.

Power consumption chart: maximum current draw

Temperature	Specification
Standard temperature range	120/277VAC, 60Hz, 0.30/0.15A
Cold-weather option	120/277VAC, 60Hz, 0.70/0.35A

Classification for hazardous locations

Lamp rating	Temperature code	Maximum temperature	Replacement part number
		Nickel-cadmium Ta= 104°F/40°C	Lead-acid Ta= 122°F/50°C
L15 (15W)	Class I Division 2 Groups A, B, C and D	T3C	T3A
	Class II Division 2 Groups F and G; Class III	T5	T5
	Class I Division 2 Groups A, B, C and D		T4A
No heads	Class II Division 2 Groups F and G; Class III		T6

Unit rating chart

Series	Battery capacity in watts			
	90 minutes	2 Hrs	3 Hrs	4 Hrs
SPH12G3	30	20	15	10
SPH12G6	60	40	30	20
SPH12N4	40	36	24	18
SPH24N9	90	72	48	36

Note: the cold-weather option is only rated for 90 minutes.

Remote test control (included with unit)



Standard infrared remote test control included in all models: allow to test the equipment without need to climb a ladder. Functional up to 30 ft distance. Universal, one Remote Test Control may test all units on the job.

Ordering format

Series	Battery and Capacity	Number of heads	LED heads	Diagnostics	Option
SPH12	High Temperature Lead-Calcium G3= 12V-30W, High temperature Lead-Calcium battery, Temperature= 32°F to 122°F (0...50°C)	0= No head 1= One head 2= Two heads	L15= 12-24V, 15W (1300 Lumens)	Standard Diagnostic IDNA= Improved Diagnostics, non-audible ¹ Optional Diagnostic NID= No Improved Diagnostics, audible ¹ ID= Improved Diagnostics, audible ¹ NEX= Nexus® Wired (contact your sales representative) ¹ NEXRF= Nexus® Wireless (contact your sales representative) ¹	CW4 = Cold-weather -40°F (-40°C) ¹ T3 = Time delay 15 minutes RFI = Radio frequency interference filter
	SPH12	G6 = 12V-60W, High temperature Lead-Calcium battery, Temperature= 32°F to 122°F (0...50°C)			
SPH12	Nickel-Cadmium N4= 12V-40W, Nickel-Cadmium battery, Temperature= 50°F to 104°F (10...40°C)				
SPH24	N9 = 24V-90W, Nickel-Cadmium battery, Temperature= 50°F to 104°F (10...40°C)				

Example: SPH12N402L15ID

¹ Minimum load required: 20% of load capacity

SPHRL Remote Fixture Series

Class I, Division 2, Groups A, B, C & D, Class II, Division 2, Groups F & G and Class III, NEMA-4X, damp & wet locations



Housing

- Light weight polycarbonate gray housing and die-cast fully adjustable heads Class I, Div. 2, Groups A, B, C & D, Class II Div. 2, Groups F & G, Class III
- NEMA-4X protection grade
- All external fasteners and hardware are constructed of stainless steel
- Die-cast aluminum LED heads

Mounting

- Simple and easy to install on walls, poles, columns, struts also on vertical pole or column installation bracket sold separately (order catalog number: PMK1-L)
- ½ NPT conduit entry on top or side

Performance

- 15W high efficacy LED emergency heads outperform traditional 50W MR16-IR Halogen
- Innovative head design: four-LED and dual-driver provide illumination even in case of unexpected component failure

Approvals

- UL924 Listed
- Can be installed in wide temperature range: -40°F to 131°F (-40°C to 55°C)
- Listed to the UL844 Standard for Class I, Division 2, Groups A, B, C & D, Class II, Division 2, Groups F & G and Class III

Warranty (subject to proper installation and maintenance)

Unit: five-year limited warranty

Detailed warranty terms located on [page 182](#) or online at: www.lightalarms.com



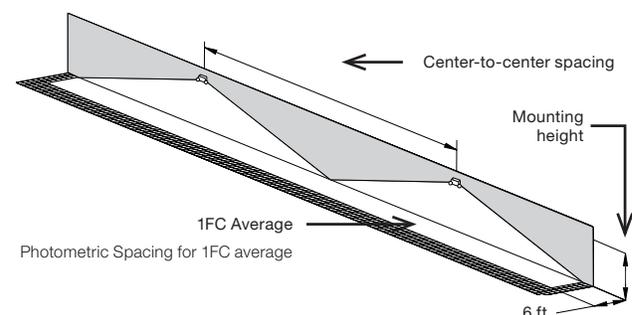
Photometry performance

Capable of being installed indoors or outdoors, the SPHRL Series of LED remote emergency lights deliver a stable and consistent illumination on the path of egress for a wide range of mounting heights.

LED Head	Power	Total lumens	Outperform spacing of MR16 halogen lamp types
L15	15W	1300	50W MR16-IR Halogen

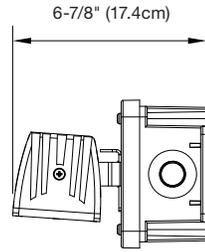
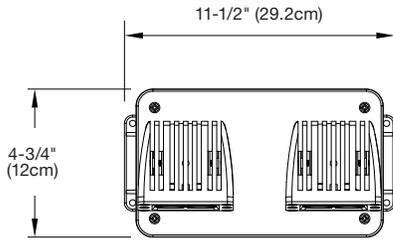
Spacing center-to-center (feet)

Mounting height	Lamp L15/15W, 1300Lm
10 ft	140'
15 ft	135'
20 ft	130'
25 ft	120'

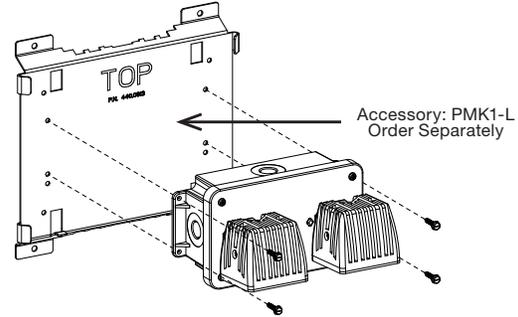


Industrial environment: Wall mounted equipment, reflectances: 10/10/10; 6-ft wide illumination path. Illumination as per NFPA101; Average: 1fc; Min: 0.1fc; Max/min < 40:1

Dimensions (Dimensions are approximate and subject to change)



PMK1-L Universal Mounting Bracket Installation



Warning: The mounting column must be anchored at both ends: floor and ceiling.

Classification for hazardous locations

Lamp suffix	Voltage	Power	Lumen flux	Ambient	Classification	Temperature code
L15	12-24VDC	15W	1,300 Lm	131°F (55°C)	Class I Division 2 Groups A, B, C and D	T3C
					Class II Division 2 Groups F and G; Class III	T5

Ordering format

Series	Number of heads	LED head
SPRHRL = Severe performance hazardous location remote head	Blank = Single head D = Double head	L15 = 12-24V – 15W (1300 Lumens)

Example: SPHRDL15

Severe™ VH Series

Class I, Division 2, Groups A, B, C and D 6V-18W & 12V up to 72W capacities
lead-calcium battery



The Severe™ VH Series Class I Division 2 Family



Severe™ XVHZ & XVEHZ exit series



Severe™ XVH combo series



Severe™ ELF651 remote series

Housing

- Class I Division 2, Groups A, B, C and D
- Vandal-resistant UV stabilized polycarbonate lamp cover
- Front and back plates are of a heavy duty aluminum
- Stainless steel tamper-proof screws

Mounting

- Surface wall mount only
- Includes mounting lugs on each side of the housing
- Universal J-Box mounting
- ½ inch entry on both sides and top of housing

Lamp type

Choice of MR16 LED lamp voltages and wattages

Electronics

- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Magnetic test switch
- Standard Improved Diagnostics (non-audible)
- Optional: Nexus® monitoring system
- 120/277 60Hz

Photometric performance

Lamp	Spacing center-to-center (feet)	
	7 feet mounting height	15 feet mounting height
LD1	39'	34'
LD7	49'	39'
LD9	68'	54'
LD10	89'	80'

Battery type

6 or 12V Lead-Calcium battery

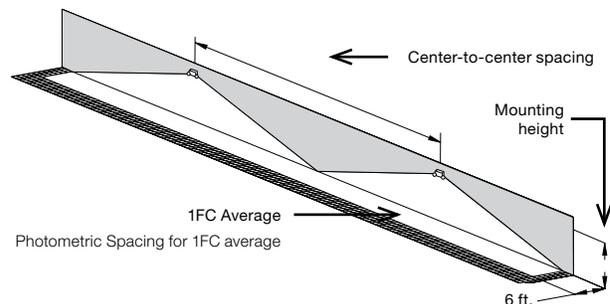
Approvals

- CSA-US (To UL 924 standards)
- Evaluated to the UL 844 Standard for Class I Division 2, Groups A, B, C and D
- NEC, OSHA and NEMA compliant for above Classes and Groups
- Damp and wet location 50°F to 104°F (10°C to 40°C)

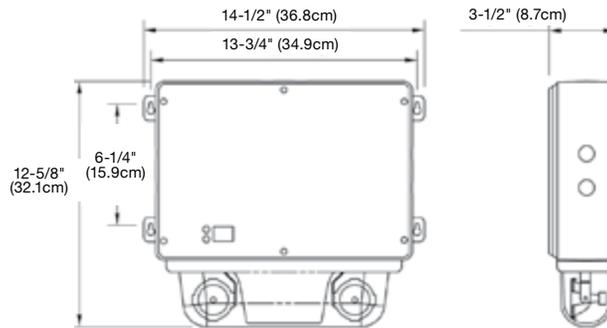
Warranty (subject to proper installation and maintenance)

Unit: five-year limited warranty

Detailed warranty terms located on [page 182](#) or online at: www.lightalarms.com



Dimensions (Dimensions are approximate and subject to change)



Power consumption chart

Series	Battery	Voltage	DC Specs				AC Specs	
			87.5% Battery capacity (in watts) ¹				Units dual voltage ²	Current Maximum
			90 Mins	2 Hrs	3 Hrs	4 Hrs		
VHG1	Lead-Calcium	6V	18	12	9	0	120/277VAC	0.17A/0.09A
VH12G1		12V	36	27	18	14	120VAC 277VAC	0.3A 0.15A
VH12G2		12V	60	45	30	24		
VH12G3		12V	72	54	36	28		

¹ National Electrical Code Specification
² All units 120/277 dual voltage, information based on wiring to specific voltage type

Accessories (Order as a separate item)

Description	Product code
Wire guard	WG3-L

Temperature codes: MR16 LED lamps

Lamp suffix	Voltage	Wattage	Lumens	Max temperature	Replacement number
LD1	6	4	T4A	120°C	580.0097-L
LD7	12	4	T4A	120°C	580.0093-L
LD9	12	5	T4A	120°C	580.0104-L
LD10	12	6	T4A	120°C	580.0106-L

Ordering format

Number of heads	Series	Lamp type	Color	Options
0= No heads	VHG1= 6V-18W	LD1= 6V-4W, MR16 LED	G= Grey	Blank= Improved Diagnostics standard (non audible) ¹
2= Two heads	VH12G1= 12V-36W	LD7= 12V-4W, MR16 LED		-DA= Improved Diagnostics (audible) ¹
	VH12G2= 12V-60W	LD9= 12V-5W, MR16 LED		-NEX= Nexus® Wired (contact your sales representative)
	VH12G3= 12V-72W	LD10= 12V-6W, MR16 LED		-NEXRF= Nexus® Wireless (contact your sales representative)
				-T3= Time delay (15 minute)

Example: 2VHG1LD1G

¹ -ID & -IDNA include a time delay feature that can be enabled/disabled in the field or set by the factory by including -ID-TD* or -IDNA-TD*

Remote Fixture ELF651 Series

Class I division 2, groups A, B, C and D certified remote fixture



Description

- Available with single or double lamp heads
- Die-cast aluminum back plate with gasket
- Vandal-resistant UV stabilized polycarbonate lamp cover
- Includes tamper-proof screws and bit
- Universal J-box mounting
- Extreme operational temperature range: -40°F to +104°F (-40°C to +40°C)

Mounting

- Surface mount
- Conduit entry ½" NPT

Photometry performance

Lamp	Spacing center-to-center (feet)	
	7 feet mounting height	15 feet mounting height
LD1	39'	34'
LD7	49'	39'
LD9	68'	54'
LD10	89'	80'
LD13	51'	39'
LD26	43'	39'

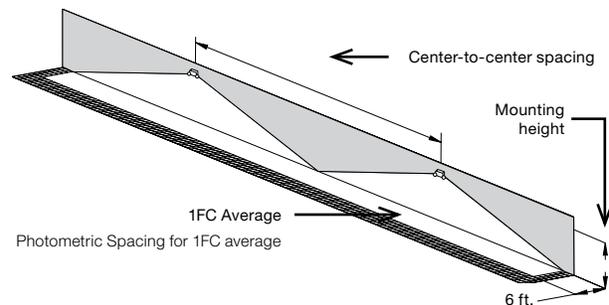
Approval

- CSA-US (To UL 924 standards)
- Evaluated to the UL 844 Standard for Class I Division 2, Groups A, B, C and D

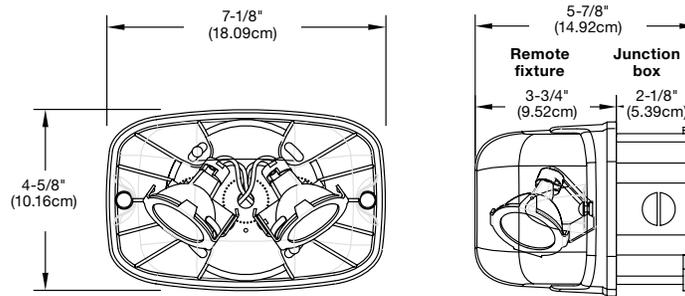
Warranty (subject to proper installation and maintenance)

Unit: five-year limited warranty

Detailed warranty terms located on [page 182](#) or online at: www.lightalarms.com



Dimensions (Dimensions are approximate and subject to change)



Lamp selection chart

MR16 LED lamps						
Lamp suffix	Voltage	Wattage	Lumens	Replacement number	Temperature code	Maximum temperature
LD1	6	4	200	580.0097-L	T4A	248°F/ 120°C
LD7	12	4	220	580.0093-L	T5	212°F/ 100°C
LD9	12	5	340	580.0104-L	T4A	248°F/ 120°C
LD10	12	6	540	580.0106-L	T4	275°F/ 135°C
LD13	24	4	220	580.0098-L	T5	212°F/ 100°C
LD26	120	4	230	580.0113-L	T4A	248°F/ 120°C

Ordering format

Series	Lamp suffix	Color	Voltage
ELF651= Single lamp remote fixture	/_____ ¹	-G= Gray	6= 6 VDC
ELF651D= Double lamp remote fixture			12= 12 VDC
			24= 24 VDC
			120= 120 VAC/VDC

Example: ELF651/LD1-G6

¹ Choose from lamp selection chart

EXP LED Series

Explosives/Hazardous location housing 6V up to 30W & 12V up to 40W capacities
Nickel-Cadmium battery



Class I, Division 1 & 2, Group C & D
Class II, Division 1 & 2, Group E, F & G
Class III

Housing

- One-piece heavy gauge, corrosion resistant, copper-free cast aluminum
- Consists of a housing with provisions for up to two lighting heads
- Spin-off gasketed cover prevents propagation of internally generated arcs
- Stainless steel vent/drain
- Lighting head fixtures are heavy cast aluminum with Pyrex® lens
- Exit faceplate: heavy-duty 20 gauge steel, baked enamel grey finish
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons

Mounting

- Surface wall mount
- 3/4" NPT conduit entry on top and bottom of housing
- Single and double pendant mount heads include elbow swivel, conduit extension pipe (6" increments)

Electronics

- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- 120/277 60Hz

Lamp type

- Heads offer a choice of MR16 LED lamp voltages and wattages
- Exit sign uses a 3 watt LED lamp

Battery type

6V or 12V, Nickel-Cadmium battery

Approvals

- CSA-US (To UL 924 standards)
- Manufactured in accordance with UL844, UL1203
- Class I, Division 1 & 2, Groups C and D
- Class II, Division 1 & 2, Groups E, F and G
- Class III
- NEC, OSHA and NEMA compliant for above Classes and Groups
- Temperature Code T6

Warranty (subject to proper installation and maintenance)

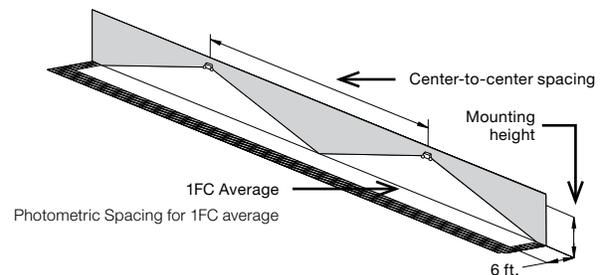
Unit: five-year full warranty

Detailed warranty terms located on **page 182** or online at: www.lightalarms.com

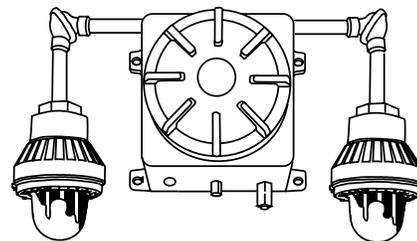


Photometric performance

Lamp	Spacing center-to-center (feet)	
	7 feet mounting height	15 feet mounting height
2 X LD1	43'	29'
2 X LD7	55'	36'
2 X LD9	67'	41'
2 X LD10	87'	62'



Dimensions (Dimensions are approximate and subject to change)



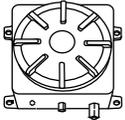
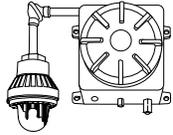
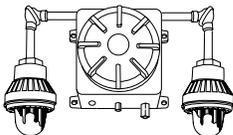
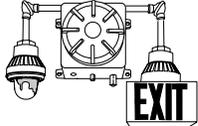
Housing: 12" X 12" X 9-1/2"
Mounting Lugs: 10" and 13-1/2" on center
Overall dimensions (including fixtures): 38" X 38" X 10"

Power consumption chart

Series	Battery	Voltage	DC Specs				Units dual voltage ¹	AC Specs
			Battery capacity in watts ¹					
			90 Mins	2 Hrs	3 Hrs	4 Hrs		
EXP618	Nickel-Cadmium	6V	18	12	9	120/277VAC	0.55/0.25 A	
EXP630		6V	30	20	15			10
EXP1224		12V	24	18	12			9
EXP1240		12V	40	30	20			15

¹ All units 120/277 dual voltage, information based on wiring to specific voltage type

Standard configurations for EXP6N and EXP12N series

Unit	Catalog number	Description
	EXP618	6 Volt self contained hazardous location emergency battery unit 18 watts of remote capacity
	EXP618-TS	6 Volt self contained hazardous location emergency battery unit 18 watts of remote capacity. Transfer switch included for use with remote Exit signs (maximum 5 Exits signs per TS)
	EXP1240E1LD9	12 Volt self contained hazardous location emergency battery unit with one head containing 2 X 2V 5W MR16 LED lamps, 30 watts of remote capacity
	EXP1240E1LD9-TS	12 Volt self contained hazardous location emergency battery unit with one head containing 2 X 12V 5W MR16 LED lamps, 30 watts of remote capacity. Transfer switch included for use with remote Exit signs (maximum 5 Exit signs per TS)
	EXP630E2LD1	6 Volt self contained hazardous location emergency battery unit with two heads, each containing 2 X 6V 4W MR16 LED lamps, 14 watts of remote capacity
	EXP630E2LD1-TS	6 Volt self contained hazardous location emergency battery unit with two heads, each containing 2 X 6V 4W MR16 LED lamps, 14 watts of remote capacity. Transfer switch included for use with remote Exit signs (maximum 5 Exit signs per TS)
	EXP618-TSX1-LR	6 volt self contained exit sign with 15 watts of remote capacity. Transfer switch included for use with integral exit sign and additional remote exit signs (maximum 5 exit signs per TS).
	EXP1230-E1LD10-TSX1-LR	12 volt self contained combination unit with 15 watts of remote capacity. Transfer switch included for use with integral exit sign and additional remote exit signs (maximum 5 exit signs per TS).

Ordering format

Series	DC Voltage	Capacity	No. of heads and lamps	Lamp wattage/Type	Battery options
EXP = Battery Unit/ Combo	6 = 6VDC 12 = 12VDC	18 = 18W (6V only)	Blank = No emergency head -E1= Single head, two lamps -E2= Two heads, two lamps each	LD1= 6V-4W, MR16 LED	Blank= no transfer panel -TS= transfer panel (Required to supply remote exit sign only)
		30 = 30W (6V only)		LD7= 12V-4W, MR16 LED	
		24= 24W (12V only)		LD9= 12V-5W, MR16 LED	
		40 = 40W (12V only)		LD10= 12V-6W, MR16 LED	

EXIT sign # of faces	EXIT sign lamp	EXIT sign letter color	Options
Blank= No exit sign	Blank= no exit sign	Blank= No exit sign	-AG= Angle reflector
X1= Single-face exit	-L= LED exit sign	R= Red	-DM= Dome reflector
		G= Green	-GD= Guard

Example: EXP630E1LD1-TSX1-LR

Remote Fixture EPF401 LED Series

Hazardous location remote fixtures



Description

- LED Light source
- Indoor use
- Available as a single or double
- Heavy cast aluminum
- Pyrex® lenses

Finish

- Painted grey

Mounting

- Surface mount: wall or ceiling
- Pendant mount: single head or double head
- Pendant mount including hazardous location elbows, swivels and conduit extension pipe (6" increments)
- Combination hazardous location junction box/mounting plate
- Conduit entry ½" NPT

Photometric performance

Lamp	Spacing center-to-center (feet)	
	7 feet mounting height	15 feet mounting height
2 X LD1	43'	29'
2 X LD7	55'	36'
2 x LD9	67'	41'
2 x LD10	87'	62'
2 X LD13	56'	29'
2 X LD25	58'	39'

The EXP Family



EXP6N & EXP12N
battery unit

X402 series
exit sign unit

EXP6N & EXP12N
combination series

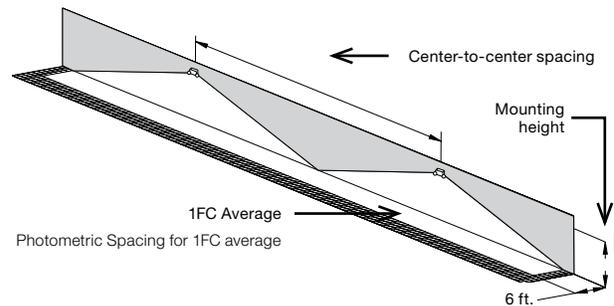
Approvals

- CSA US Listed
- Class I, Division 1&2, Groups C and D
- Class II, Division 1&2, Groups E, F and G
- Class III, Division 1&2, (150W max)
- Complies with NEC, OSHA and NEMA for above classes and groups
- Suitable for wet and damp location
- Temperature Code T6

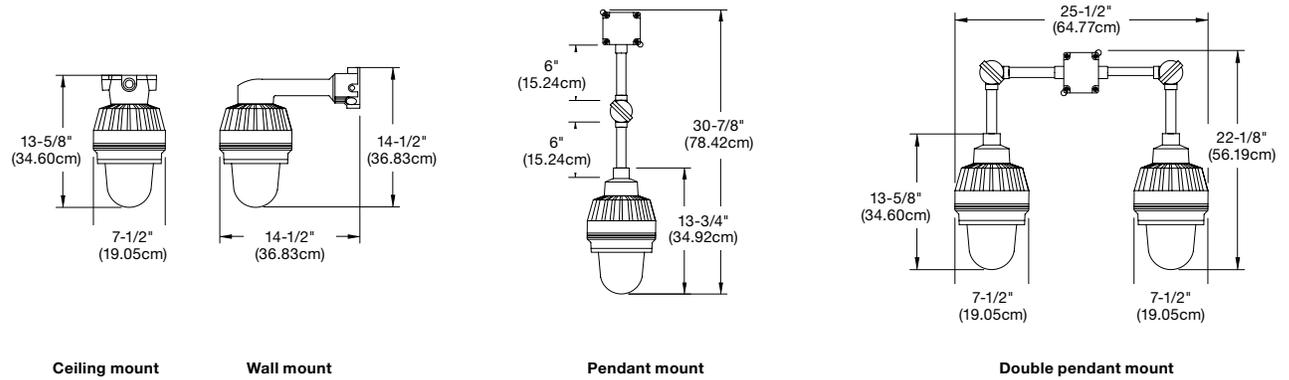
Warranty (subject to proper installation and maintenance)

Unit: five-year limited warranty

Detailed warranty terms located on [page 182](#) or online at: www.lightalarms.com



Dimensions (Dimensions are approximate and subject to change)



Options

Description		Suffix
Angle Reflector: Highly reflective white finish inside and out. Attaches to globe holder ring with four screws		-AG
Dome Reflector: Highly reflective white finish inside and out. Attaches to globe holder ring with four screws		-DM
Guard: One-piece aluminum casting construction. Attaches to globe holder ring with four screws		-GD

Temperature codes chart

Lamp suffix	Voltage	Wattage	Temperatures code
LD1	6V	4W	T6
LD7	12V	4W	T6
LD9	12V	5W	T6
LD10	12V	6W	T6
LD13	24V	4W	T6
LD25	120V	4W	T6

Ordering format

Series	Mounting	# of lamps	Voltage	Options
EPF401= X-Proof LED Remote Fixture	C= Ceiling Mount P= Pendant Mount W= Wall Mount D= Double Pendant Mount	2 lamps ¹	LD1= 6V-4W, MR16 LED LD7= 12V-4W, MR16 LED LD9= 12V-5W, MR16 LED LD10= 12V-6W, MR16 LED LD13= 24V-4W, MR16 LED LD25= 120V-4W, GU10 LED	-AG= Angle reflector -DM= Dome reflector -GD= Guard
Example: EPF401P2LD1				

¹ Each head includes 2 lamps

ELF650 Series

ELF650 NEMA-4X & NSF Certified



Description

- ELF650 and ELF650P NEMA-4X and NSF certified indoor or outdoor use
- ELF650 and ELF650P NEMA-4X and NSF certified with choice of fully gasketed cast aluminum or plastic back plate
- ELF650 and ELF650P NEMA-4X and NSF certified comes standard with Phillips head screws and tamper proof screws
- Include clear polycarbonate UV impact resistant cover

Lamp type

Choice of MR16 LED lamp voltages and wattages

Mounting

- Surface mount
- Universal J-Box mounting

Photometric performance

Lamp	Spacing center-to-center (feet)	
	7 feet mounting height	15 feet mounting height
LD1	39'	34'
LD7	49'	39'
LD9	68'	54'
LD10	89'	80'
LD13	51'	39'
LD25	43'	39'

Approvals

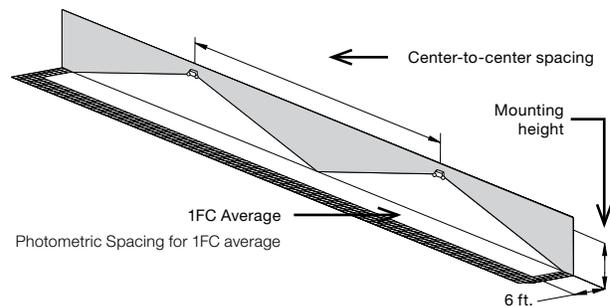
- UL 924 listed
- Vandal resistant
- NEMA-4X¹
- NSF Rated

Warranty (subject to proper installation and maintenance)

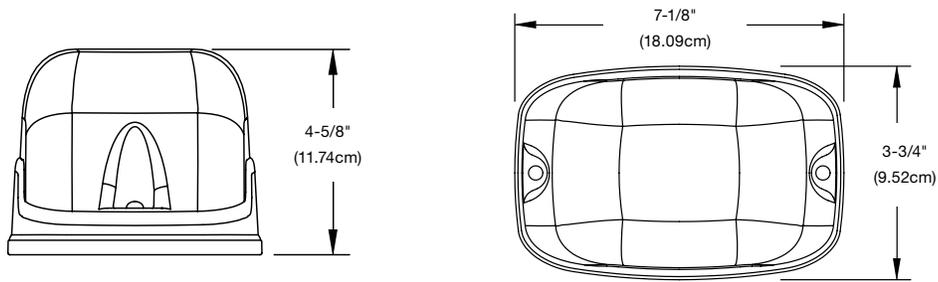
Unit: five-year full warranty

Detailed warranty terms located on [page 182](#) or online at: www.lightalarms.com

¹NEMA-4X Certified when installed using a circular NEMA-4X rated junction box (sold separately by Thomas&Betts under P/N 091647-L)



Dimensions (Dimensions are approximate and subject to change)



Lamp selection chart

MR 16 LED lamps				
Lamp suffix	Voltage	Wattage	Lumens	Replacement #
LD1	6	4	130	580.0097-L
LD7	12	4	170	580.0093-L
LD9	12	5	340	580.0104-L
LD10	12	6	510	580.0106-L
LD13	24	4	200	580.0098-L
LD25	120	4	204	580.0095-L

Ordering format

Series	Lamp suffix	Color	Voltage	Options
ELF650 = Die-Cast back plate NEMA-4X and NSF Certified with single head	/ _____ ¹	-M = Mist white	6 = 6 VDC	Blank = no option
ELF650D = Die-Cast back plate NEMA-4X and NSF Certified with double head		-B = Black	12 = 12 VDC	
ELF650P = All polycarbonate NEMA-4X and NSF Certified with single head ¹		-G = Gray	24 = 24 VDC	
ELF650PD = All polycarbonate NEMA 4X and NSF Certified with double head ¹			120 = 120 VDC/VAC	

Example: ELF650/LD9-M12

¹ Choose from lamp selection chart



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Technical Support

Tel.: 1-888-552-6467

Fax: 1-800-316-4515

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