



EMERGENCY BATTERY SYSTEM – INTRODUCTION



EBS Battery Unit Only



Class I, Div. 1&2, Groups B^①, C, D
 Class I, Zone 1&2, Groups IIB+H2^①, IIA
 Class II, Div. 1&2, Groups EFG
 Class III
 Enclosure Type 4 (NEMA 4, 7B^① CD, 9EFG)

SP File LR11713

HOSTILE[®] EBS

EMERGENCY

FEATURES-SPECIFICATIONS

Applications

Where required by the NEC (or local "Life Safety" code) for safe egress (over doors, aiseways, stairs, walkways, exit paths, and outer perimeter walls) to provide illumination during interruption of normal power to area lighting.

In indoor or outdoor locations made hazardous by the presence of flammable gas, vapors, or dusts. Includes refinery/chemical production and storage, grain processing, waste water treatment facilities and any area requiring heavy-duty dependable emergency lighting.

Exclusive Features

- LED Heads provide clear crisp illumination at 5000° Kelvin^②
- LED Head L70 value 100,000 hours for minimal maintenance
- Two head models up to 500% brighter than competitive conventional units^③
- Enclosure Type 4 (NEMA 4) for wet and harsh locations
- Group B is standard when using EBSHK type heads
- Automatic Safety Disconnect – Removing main cover disconnects battery power
- Ambient Suitability 0°C to 45°C Battery Unit; Heads to 55°
- Compact unit requires only two mounting points
- World Voltage 120-277 VAC 50/60Hz input

Other Features

- High % of lumens maintained during 90 minute egress cycle
- EBSHK type heads are fully adjustable on unit or remote when ordered with RFSL Factory Sealed mounting kits

- EBSEL type heads are factory sealed on their EZ type mounting boxes
- Heads can be remote mounted over 300' from battery unit
- Ni-Cad sealed batteries provide 90 minutes of illumination
- Integral base unit LED pilot light indicates AC power is present
- Choice of Integral or Remote Push-To-Test station to verify system operation
- Vapor Capsule to inhibit corrosion is standard with main enclosure unit
- Terminal Blocks identified for incoming and outgoing connections

Compliances

- UL 1598 Standard for Luminaires
- UL 8750 for LED Lighting
- UL 844 Luminaires for Hazardous Locations
- UL 1203 Explosion-Proof/Dust-Ignition-Proof Electrical Enclosures
- UL 924 Emergency Lighting
- CSA C22.2 no. 137-M1981 Luminaires for Hazardous Locations
- CSA C22.2 no. 30-M1986 C1D1 Enclosures
- CSA 22.2 no. 25-1066 C2D1 EFG Enclosures
- Enclosure Type 4
- NEMA 4, 7B^①CD, 9EFG

Materials

- Main Enclosure and Heads Copper Free Aluminum alloy with Baked Powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection
- Attachment fittings copper-free aluminum
- External hardware 316 Stainless Steel
- EBSEL reflectors EXIT accessory aluminum with white paint

Notes

- ^① Main EBS unit is CID1 Grp B (Suitable Zone 1 IIB+H2) with attached EBSHK heads or no heads; with attached EBSEL heads unit is CID1 Groups CD (Suitable Zone 1 IIB, IIA)
- ^② See VSL Series Photometry Color Graphs; 5000° Kelvin is typical ("sunlight")
- ^③ Based on published tungsten/incandescent data EBSEL Heads 300% brighter; EBSHK Heads 500% brighter



EBS Unit with HK Type Heads and Integral Push-To-Test



EBS Unit with EL Type Heads and Integral Push-To-Test



EBS Unit with EL Type Head and Exit plus HK Head with remote Push-To-Test



EMERGENCY BATTERY SYSTEM – REMOTE HEADS & ACCESSORIES



EBS1030 REMOTE HEADS WITH MOUNT (FACTORY SEALED)				CID1CD; C2D1EFG
10W 30VDC	PENDANT 3/4"①	CEILING 3/4"①	WALL 3/4"①	STANCHION 1-1/2"②
With Guard	EBS1030A2G	EBS1030X2G	EBS1030B2G	EBS1030D4G
Without Guard③	EBS1030A2	EBS1030X2	EBS1030B2	EBS1030D4

EBS1030 COMPONENTS & ACCESSORIES – DESCRIPTION	CATALOG NUMBER
EBS1030 10W 30V Head Only with LED's, Less Mount and Guard	EBS1030
Guard	EMG1
Red Guard – used to signify remote fixture is for Emergency	EMG1-R③
EXIT Accessory – 3-sided white painted aluminum	HEXA-100③
Dome Reflector	ERSD15
Angle Reflector	ERA15
Sealed Fittings Set for attachment of Pendant EBS1030 to EBS23HD-xxx	EBS-AHFS
Replacement Globe and Support Assembly	EMGS1



MOUNTING BOXES				
CATALOG NUMBER				HUB SIZE
PENDANT	CEILING	BRACKET	STANCHION	
EZA2	EZX2	EZB2	–	3/4"
EZA3	EZX3	EZB3	–	1"
–	–	–	EZD4②	1-1/4" / 1-1/2"

① For 1" pendant, ceiling and wall hubs, substitute "3" for "2" in catalog number; example: EBS1030A3G.

② Stanchion conduit hub size supplied is 1-1/2" with 1-1/2" to 1-1/4" reducer for 1-1/4" mounting.

③ Order fixture without guard for use with HEXA-100 EXIT Accessory, or to order EMG1-R Red Guard.

④ For EBS1030 with Mount Dimensions, see EMI15 series in lighting section.

EBSHK1030 10W 30V HEADS, COMPONENTS & ACCESSORIES		CID1BCD; C2D1EFG
DESCRIPTION	CATALOG NUMBER	
EBSHK Head Only with LED's – Requires Field Seal①	EBSHK1030	
EBSHK Head with ADJUSTABLE FACTORY SEALED "C" fittings set	EBSHK1030-RFSC	
EBSHK Head with ADJUSTABLE FACTORY SEALED "L" fittings set	EBSHK1030-RFSL	
Sealed Fittings Set for attachment of EBSHK to EBS23DH-xxx	EBS-AHFS	

① Seal purchased separately appropriate of area of use

EBS23DH SERIES ACCESSORIES – DESCRIPTION	CATALOG NUMBER
Remote Push-To-Test Station Group B 3/4" Feed-Thru w/Close Up Plug①	EBS-PTT
Remote Push-To-Test Station with Lock Off, Group B 3/4" Feed-Thru①	EBS-PTT-LO
Lock-Off for Integral Push-To-Test	G010502
Sealed Fittings Set for attachment of EBSHK to GEBC-2 or GEBL-2	EBS-AHFS
Replacement Battery Pack and Electronics	KLBP01
Replacement Vapor Capsule for corrosion protection	EBS-VC

① EBS23DH requires conduit seals (purchased separately) exiting enclosure within 18"; EBS-PTT contains a N.C. contact and is Factory Sealed for C&D and up to 5' for Group B.



EBS1030
Shown with
Exit Accessory



EBS1030



EMG1



EMG1-R



ERSD15



EMGS1



ERA15



EBSHK1030



EBSHK1030-RFSL



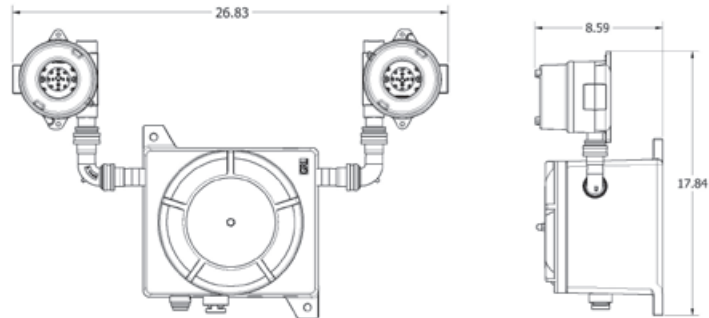
EBSHK1030-RFSC



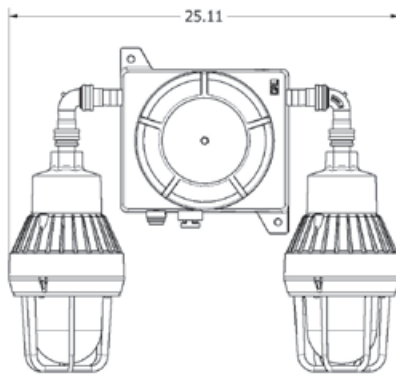
EBS-PTT



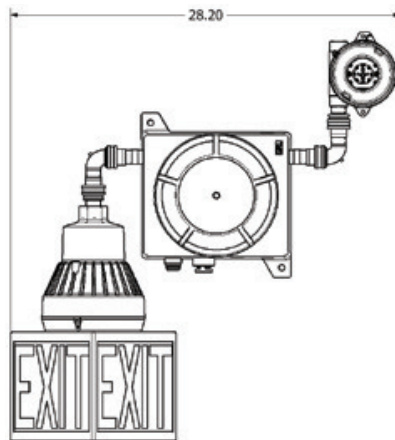
EMERGENCY BATTERY SYSTEM – DIMENSIONS & WEIGHTS



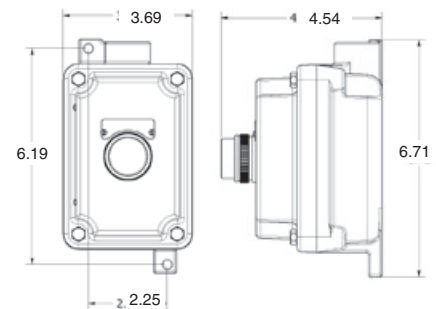
Dimensions - EBS with HK Heads



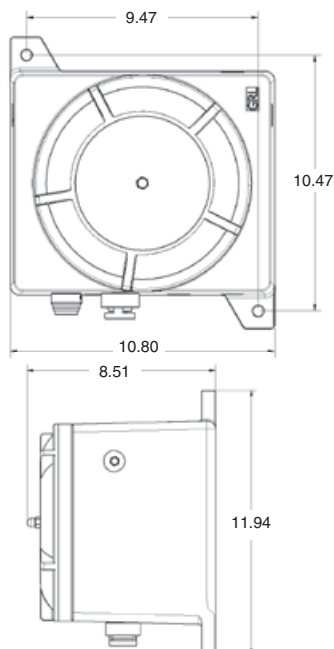
Dimensions - EBS with EL Heads



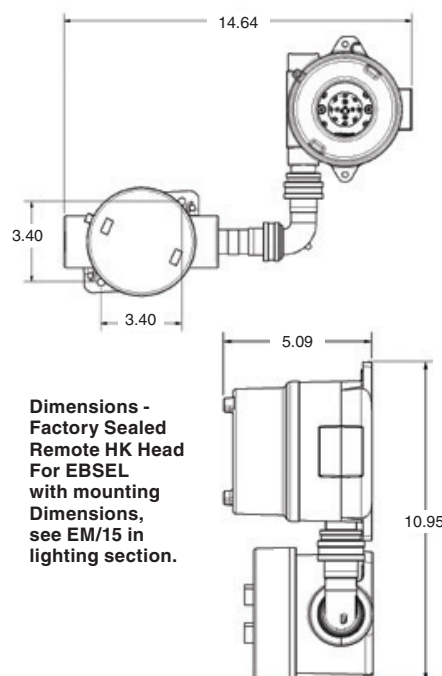
Dimensions - EBS with EL-EXIT & HK Heads



Dimensions - Remote Test Station



Dimensions - EBS Main Unit



Dimensions -
Factory Sealed
Remote HK Head
For EBSEL
with mounting
Dimensions,
see EM/15 in
lighting section.

WEIGHTS (SHIPPING) INDIVIDUAL AND COMBINATIONS ^①	LBS.
EGS23DH Main Unit Only	36.6
EBSEL1030 Pendant Head Only w/ Fittings Set	12.3
EBSHK1030 Head Only w/ Fittings Set	5.0
EBSHK1030-RFSC (or RFSL)	11.0
EBS-PTT	3.0
EBS-AHFS Factory Sealed Fittings Set	0.6
EBS23DH & 1 EBSHK w/ Fittings	41.6
EBS23DH & 2 EBSHK w/ Fittings	46.6
EBS23DH & 1 EBSEL w/ Fittings	48.9
EBS23DH & 2 EBSEL w/ Fittings	61.2
EBS23DH & 1 EBSEL & 1 EBSHK w/ Fittings	53.9

^① EBSEL Heads ship separately