



EMERGENCY BATTERY SYSTEM – INTRODUCTION

HOSTILE[®] EBS

EMERGENCY



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

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

 File LR11713

FEATURES-SPECIFICATIONS

Exclusive Features

- LED Heads provide clear crisp illumination at 5000° Kelvin
- LED Head L70 value 100,000 hours for minimal maintenance
- Two head models up to 500% brighter than competitive non-LED units
- Enclosure Type 4 (Type 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

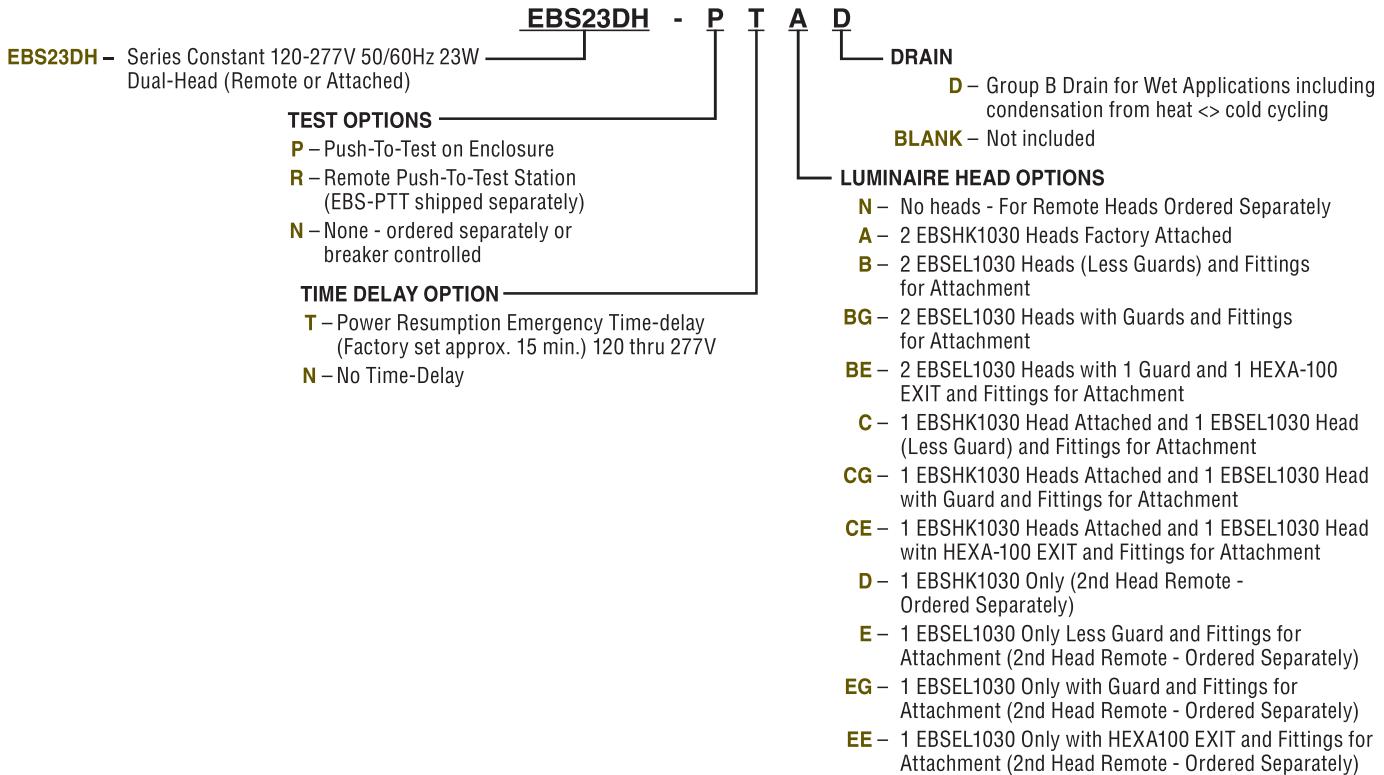
- High % of lumens maintained during 90 minute egress cycle
- EBSHK type heads are fully adjustable on unit or remote when ordered with RFSL Factory Sealed mounting kits
- EBSEL type heads are factory sealed on their EZ type mounting boxes
- Heads can be remote mounted over 300' from battery unit
- Ni-Cad 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

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



EMERGENCY BATTERY SYSTEM – LOGIC & COMPONENTS



Factory Sealed Remote LED Spot Light - Bottom Feed



Factory Sealed Remote LED Spot Light - Side Feed

EBS UNIT - BOTTOM DETAIL



- A** Optional Push-To-Test
- B** Optional Group B Drain
- C** Standard Pilot Light
- D** Entry for Remote P-T-T Station
- E** Power Entry (also on top)



Remote Push-To-Test Station



The EBS23 System is designed to power 2 Heads for operation (total attached or remote); each Head is approximately 10 Watts.



LIGHTING
EBS SERIES

EMERGENCY BATTERY SYSTEM – PRE-CONFIGURED UNITS

ORDERING INFORMATION



INTEGRAL PUSH-TO-TEST

EBS SYSTEM WITH TWO EBSHK HEADS

Integral PTT, Two EBSHK	Integral PTT, TDR , Two EBSHK	Remote PTT, Two EBSHK	Remote PTT, TDR , Two EBSHK
EBS23DH-PNA	EBS23DH-PTA	EBS23DH-RNA	EBS23DH-RTA



EBS SYSTEM WITH TWO EBSEL HEADS WITH GUARDS

Integral PTT, Two EBSEL Heads w/ Guards	Integral PTT, TDR , Two EBSEL Heads w/ Guards	Remote PTT, Two EBSEL Heads w/ Guards	Remote PTT, TDR , Two EBSEL Heads w/ Guards
EBS23DH-PN BG	EBS23DH-PT BG	EBS23DH-RN BG	EBS23DH-RT BG



EBS SYSTEM WITH ONE EBSHK HEAD & 1 EBSEL HEAD WITH GUARD

Integral PTT, One EBSHK & One EBSEL Head w/ Guard	Integral PTT, TDR , One EBSHK & One EBSEL Head w/ Guard	Remote PTT, One EBSHK & One EBSEL Head w/ Guard	Remote PTT, TDR , One EBSHK & One EBSEL Head w/ Guard
EBS23DH-PN CG	EBS23DH-PT CG	EBS23DH-RN CG	EBS23DH-RT CG



EBS SYSTEM WITH TWO EBSEL HEADS ONE WITH EXIT

Integral PTT, Two EBSEL Heads, One w/ EXIT, One w/ Guard	Integral PTT, TDR , Two EBSEL Heads One w/ EXIT, One w/ Guard	Remote PTT, Two EBSEL Heads, One w/ EXIT, One w/ Guard	Remote PTT, Two EBSEL Heads, One w/ EXIT, One w/ Guard
EBS23DH-PN BE	EBS23DH-PT BE	EBS23DH-RN BE	EBS23DH-RT BE



EBS SYSTEM WITH ONE EBSHK HEAD & ONE EBSEL HEAD WITH EXIT

Integral PTT, One EBSHK Head, One EBSEL w/ EXIT	Integral PTT, TDR , One EBSHK Head, One EBSEL w/ EXIT	Remote PTT, One EBSHK Head, One EBSEL w/ EXIT	Remote PTT, TDR , One EBSHK Head, One EBSEL w/ EXIT
EBS23DH-PN CE	EBS23DH-PT CE	EBS23DH-RN CE	EBS23DH-RT CE



EBS SYSTEM ONLY FOR REMOTE HEADS (ORDER TWO SEPARATELY)

Integral PTT, No Heads	Integral PTT, TDR , No Heads	Remote PTT, No Heads	Remote PTT, TDR , No Heads
EBS23DH-PN N	EBS23DH-PT N	EBS23DH-RN N	EBS23DH-RT N



CID1BCD



CID1CD



CID1CD



CID1CD



CID1CD



CID1BCD



EMERGENCY BATTERY SYSTEM – REMOTE HEADS & ACCESSORIES



EBSEL
Shown with
Exit Accessory

EBSEL1030 COMPONENTS & ACCESSORIES – DESCRIPTION		CATALOG NUMBER
EBSEL 10W Head Only with LED's, Less Mount and Guard ①		EBSEL1030
Guard		EMG1
Red Guard – used to signify remote fixture is for Emergency		EMG1-R
EXIT Accessory – 3-sided white painted aluminum		HEXA-100
Dome Reflector		ERSD15
Angle Reflector		ERA15
Sealed Fittings Set for attachment of Pendant EBSEL to EBS23HD-xxx		EBS-AHFS
Replacement Globe and Support Assembly		EMGS1

① Cannot be used as a stand alone product and is not certified unless used with EBS23DH unit.



MOUNTING BOXES				
CATALOG NUMBER				
PENDANT	CEILING	BRACKET	STANCHION	HUB SIZE
EZA2	EZX2	EZB2	–	3/4"
EZA3	EZX3	EZB3	–	1"
–	–	–	EZD4	1-1/4" / 1-1/2"



EBSEL1030 EMG1 ERA15



EMGS1 ERSD15 ERA15



EBSHK1030 EBSHK1030-RFSL



EBS-PTT EBSHK1030-RFSC

EBS23DH SERIES ACCESSORIES – DESCRIPTION		CATALOG NUMBER
Remote Push-To-Test Station Group B 3/4" Feed-Thru w/Close Up Plug		EBS-PTT
Remote Push-To-Test Station with Lock Off, Group B 3/4" Feed-Thru		EBS-PTT-LO
Lock-Off for Integral Push-To-Test		GO10502
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



LIGHTING

EBS SERIES

EMERGENCY BATTERY SYSTEM – ELECTRICAL & TEMPERATURE DATA



EBS System with
SINGLE HEAD



SPOTLIGHT

LUMINAIRE

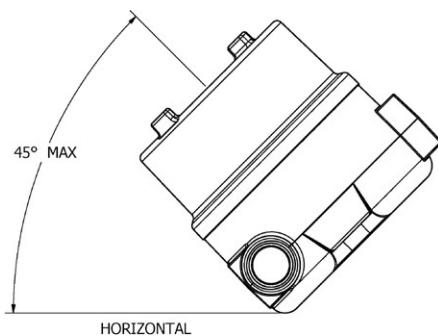
EXIT SIGN

EBS23DH ELECTRICAL DATA						
CATALOG NUMBER	INPUT**			OUTPUT**		
	VOLTAGE	WATTS	CURRENT	VOLTAGE	WATTS	CURRENT
EBS23DH	120-277VAC	7.5	.1 A	33VDC	23	700mA

** Figures nominal. Current is 350mA to each of 2 heads (2 heads are required for proper operation, remote or attached).

THERMAL PERFORMANCE DATA					
CATALOG NUMBER	AMBIENT	CID1	CIID1	SUITABILITY	SUPPLY WIRE
EBS23DH	45°C	T6	EFG	0-45°C	75°C
EBSEL1030	55°C	T6	EFG	-40 to 40°C	75°C
EBSHK1030	55°C	T6	EFG	-40 to 40°C	75°C

* Heads are NOT certified for use without EBS Battery Unit

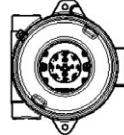


EBSHK Heads can be aimed up to 45° above horizontal – if flush on wall will require spacing out.

4 Head EBS option:

EBS units are designed for 2 head operation and will provide the lumens noted at right. However, 4 heads can be connected and will operate for 90 minutes at half the published lumen values. The EBSHK1030 would provide 456 lumens; the EVSEL1030 540 lumens. Instructions for wiring are included with the main EBS unit.

LED 10W EBSHK1030



ZONAL LUMEN SUMMARY

ZONE	LUMENS	FIXT%
0-30	254	27.9%
0-40	423	46.3%
0-60	781	85.5%
0-90	913	100.0%
90-120	0	0.0%
90-130	0	0.0%
90-150	0	0.0%
90-180	0	0.0%
0-180	913	100.0%

Absolute Photometry

Total Luminaire Efficiency = N.A.%
Spacing to Mounting Height Ratio 2.1

EMERGENCY MODE LUMENS

5 Min.	99.1%	905 Lumens
45 Min.	99.4%	871 Lumens
90 Min.	95.3%	871 Lumens

LED 10W EBSEL1030



ZONAL LUMEN SUMMARY

ZONE	LUMENS	FIXT%
0-30	180	16.7%
0-40	344	31.8%
0-60	758	70.1%
0-90	1067	98.7%
90-120	11	1.0%
90-130	13	1.2%
90-150	14	1.3%
90-180	14	1.3%
0-180	1081	100%

Absolute Photometry

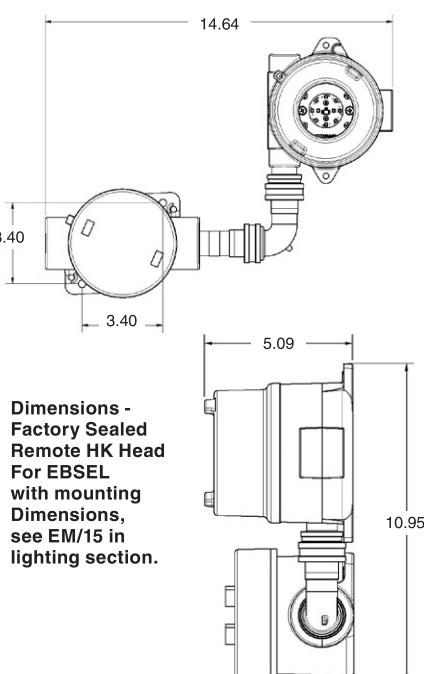
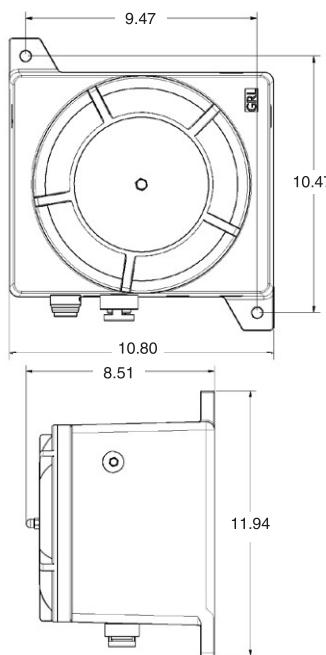
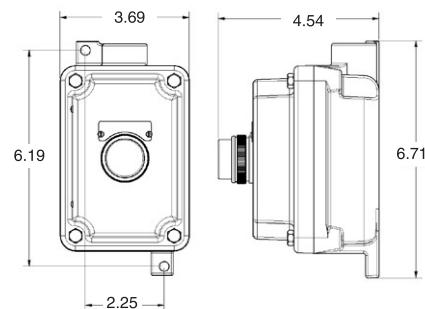
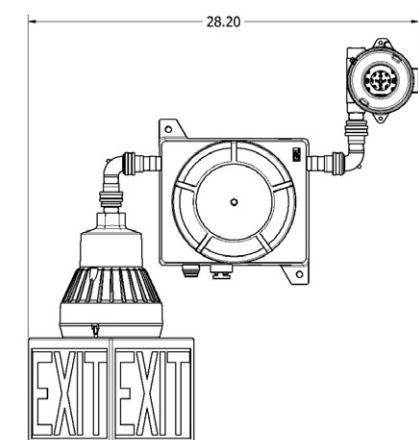
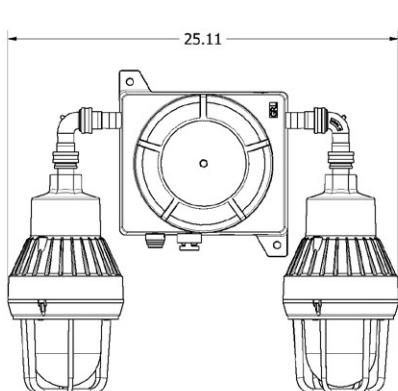
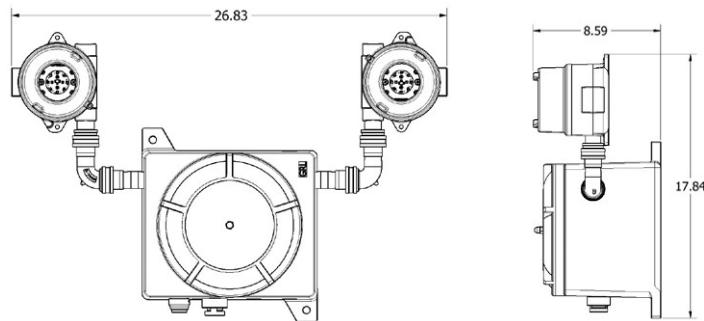
Total Luminaire Efficiency = N.A.%
Spacing to Mounting Height Ratio 2.1

EMERGENCY MODE LUMENS

5 Min.	94.4%	102 Lumens
45 Min.	91.3%	987 Lumens
90 Min.	89.3%	966 Lumens



EMERGENCY BATTERY SYSTEM – DIMENSIONS & WEIGHTS



WEIGHTS (SHIPPING) INDIVIDUAL AND COMBINATIONS	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