



# Technical Manual for the Strobe – XB15ULC

Please note that every care has been taken to ensure the accuracy of our technical manual. We do not, however, accept responsibility for damage, loss or expense resulting from any error or omission. We reserve the right to make alterations in line with technical advances and industry standards.

## 1. INTRODUCTION

These certified strobes have been designed for use in potentially explosive atmospheres and harsh environmental conditions. The glass reinforced polyester enclosures are suitable for use offshore or onshore, where light weight combined with corrosion resistance is required.

The strobe housing is manufactured completely from a U.V. stable, glass reinforced polyester. Stainless steel screws and mounting bracket are incorporated ensuring a totally corrosion free product.

Units can be painted to customer specification and supplied with identification labels.

## 2. INSTALLATION

### General

When installing and operating explosion-protected equipment, requirements for selection, installation and operation should be referred to eg. IEE Wiring Regulations and the 'National Electrical Code' in North America. Additional national and/or local requirements may apply.

Ensure that all nuts, bolts and fixings are secure.

Ensure that only the correct listed or certified stopping plugs are used to blank off unused gland entry points and that the NEMA/IP rating of the unit is maintained.

### Mounting

#### Direct mounted version

The unit can either be directly mounted using inserts moulded into the back of the enclosure (standard) or a backstrap (optional) can be fixed to the unit giving an optional mounting position for when direct mounting is deemed suitable.

MEDC recommend the use of stainless steel screws.

Direct mounting: M5 (13/64")\*

Backstrap mounting: M8 (5/16")

\*Please note: For direct mounting, please observe the following formula to determine length of fixing screw required:-

Length of screw = Thickness of mounting surface + 25/64" (10mm)

#### Pole mounted version

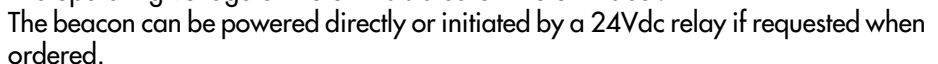
The unit can be mounted to a 1/2" or 3/4" pipe and may be mounted in any position. To mount the unit, thread fully onto conduit and secure with the grub screw provided.

### Cable Termination

**CAUTION: Before removing the cover assembly, ensure that the power to the unit is isolated.**

Unscrew the set screw in the flange of the cover. Unscrew and remove the cover and lens assembly using the spanner supplied to gain access to the inside of the unit. Unscrew the 2 off plastic thumbscrews and carefully lift the PCB assembly clear of the mounting pillars to gain access to the terminals.

Once termination is complete replace the PCB assembly onto the mounting pillars and fully tighten the thumbscrews. Take care not to over tighten. Replace the cover assembly, ensuring the cover is screwed down fully. There should be a maximum gap of  $1/128"$  (0.2mm) between the faces of the cover and enclosure to ensure o-ring compression. Ensure the cover seal is correctly seated in its groove during re-assembly. Re-tighten the set screw in the cover flange to secure the cover.



## Light Output Ratings

Voltage	Light Output Rating (Cd)		
	No guard	Wire guard	Cast guard
24Vdc	60	50	44
48Vdc	50	45	20
Reg. 120Vac	30	25	12
Reg. 240Vac	30	25	12

Coloured Lenses Multiplying Factor				
Red	Blue	Green	Amber	Yellow
0.2	0.27	0.24	0.36	0.65

### 4. MAINTENANCE

During the working life of the unit, it should require little or no maintenance. However, if abnormal or unusual environmental conditions occur due to plant damage or accident etc., then visual inspection is recommended.

If a unit fault should occur, then the unit can be repaired by MEDC. All parts of the unit are replaceable.

If you acquired a significant quantity of units, then it is recommended that spares are also made available. Please discuss your requirements with the Technical Sales Engineers at MEDC.

Painted and surface finishes, other than those applied by MEDC, are not permitted

### 5. CERTIFICATION/APPROVALS

Please refer to marking on the unit for specific approval details.

UL listed for use in	Class I, Div. 2, Groups A, B, C & D.
	Class II, Div 2, Groups F & G
USA (USL) and Canada (CNL)	Class I, Zone 1, AExd IIC; Exd IIC.

UL standards	UL 1638 – Ordinary locations
	UL 1638 UXUB Marine Listed
	UL 50, UL 60079-0, UL 60079-1
	CSA-C22.2 No. 205, CSA E60079-0,
	CSA E60079-1.

ULC Standards	CAN/ULC-S526-07
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### 6. CERTIFIED TEMPERATURE

T6/T85°C (Tamb -55°C to +40°C) (-67°F to +104°F)

T5/T100°C (Tamb -55°C to +55°C) (-67°F to +131°F)

T4/T135°C (Tamb -55°C to +70°C) (-67°F to +158°F)

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