

# MBX21 Xenon Strobe Beacon 21 Joule

The MBX21 is a 21 Joule Xenon strobe beacon featuring a robust, fire retardant, IP66 & IP67 Type 4/4X/13 enclosure.

Featuring dual Xenon strobe tubes. Manufactured from lightweight, high performance PPS with its corrosion proof properties the MBX21 is suitable for the harshest of environments.

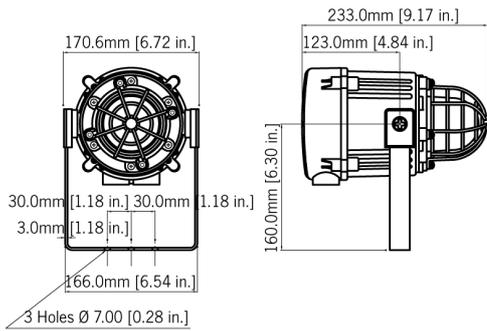
## Features

- Automatic synchronisation on multi-beacon systems
- Beacons can be set to 'flip-flop' alternating mode with other units on multi-beacon systems
- Dual Xenon tubes mechanically secured against shock & vibration
- Glass lenses & 316 (A4) Stainless steel guard
- UV stable PC, field replaceable, colour lens filter
- Ingress protection IP66/67 Type 4/4X/13
- Large termination area
- Dual M20 or 1/2"NPT cable entries - adaptors available
- Stopping plug included
- 316 (A4) Stainless steel mounting bracket
- Ratchet adjustable 'U' bracket for 360° positioning
- Duplicate cable terminations
- Reverse polarity diode fitted
- Continuously rated
- 520 cd effective candela light intensity
- 118,537 cd peak candela light intensity

## Approvals

- EAC compliant: RU D-GB.GA05.B.12595-20
- Russian Maritime Register of Shipping  
Cert: No. 19.00193.278





## Specification

Energy:	21 Joules
Light source:	Dual Xenon strobe tubes/lamps
Flash rate:	1Hz, 2Hz & double strike 1Hz
Peak Candela:	2,100,000 cd – calculated from energy (J)
Effective Intensity cd:	1,050 cd – calculated from energy (J)
Peak Candela:	118,537 cd* – measured ref. to I.E.S.
Effective Intensity cd:	520 cd* – measured ref. to I.E.S.
Lens colours:	Amber, Blue, Clear, Green, Magenta, Red & Yellow
Voltages DC:	24vdc; 48Vdc
Voltages AC:	115vac; 230vac
Ingress protection:	IP66/67 Type 4/4X/13
Enclosure material:	High impact UL94 V0 PPS Glass Reinforced
Enclosure colour:	Black
Dome material:	Borosilicate glass
Lens colour filter:	Field replaceable UV stable PC
Lens guard:	316 (A4) Stainless steel
Cable entries:	2 x M20; 1 x M20 & 1 x 1/2"NPT; 2 x 1/2"NPT supplied with blanking plug
Terminals:	0.5 – 2.5mm <sup>2</sup> (20-14 AWG)
Line monitoring:	Diode polarized for use in supervised circuits
Operating temp:	-40 to +66°C [-40° to +151°F]
Storage temp:	-40 to +70°C [-40 to +158°F]
Relative humidity:	95% at 20°C [68°F]
MTBF DC:	137.12 years / 1,201,201 hours – MIL 217
MTBF AC:	304.01 years / 2,663,115 hours – MIL 217
Weight:	1.48kg/3.25lbs

\* All candela data is representative of performance with clear lens at optimum voltage

## Part Codes

Variable:	Identifier:	Description:
Product type:	MBX21	Xenon Strobe Beacon
Voltage:	AC115 AC230 DC024 DC048	115V ac 50/60Hz 230V ac 50/60Hz 24V dc (20-28Vdc) 48V dc (42-54V dc)
Cable entries: [e]	A B C	M20x1.5 & 1/2" NPT M20x1.5 & M20x1.5 (Default) 1/2" NPT & 1/2" NPT
Stopping plug material: [m]	N	Nylon
Bracket & Guard: [s]	1 3	316 (A4) Stainless Steel 316 (A4) Stainless Steel with Equipment tag
Product version: [v]	A	CE, UKCA
Product option: [o]	1 X Z	Standard product Custom configuration – contact E2S Custom alarm tone software – contact E2S
Enclosure: [x]	B	Black
Lens colour: [y]	A, B, C G, M, R, Y	Amber, Blue, Clear Green, Magenta, Red, Yellow
Accessories:	SP65-0001-A4 SP65-0003-A4	Pole Mount Bracket Kit 2" St/St 316 (A4) Sunshade – St/St 316 (A4)

## Current Consumption

Product Version:	Nominal Voltage:	Voltage Range:	Current Consumption:
DC024	24V dc	20-28V dc	1200mA
DC048	48Vdc	42-54V dc	600mA
AC115	115Vac	±10% 50/60Hz	560mA
AC230	230V ac	±10% 50/60Hz	280mA

## Flash Patterns

Stage 1:	Description:	Stage 2:
Single Flash	1Hz Dual Xenon tubes operate together	AF
Alternate Flash	2Hz Xenon tubes flash alternately – 0.5sec gap	SF
Double strike	1Hz First tube flash followed by second)	SF