

L101X Xenon Strobe Beacon

The L101X is a compact, robust 5 Joule Xenon strobe beacon ideal for all signalling applications including fire, security and process control. UL/cUL approved and CPR compliant – tested to UL1638 & EN54-23. SIL1 compliant.

Automatically synchronised with an effective light output of 200 cd. Featuring a fire retardant, UV stable IP66/IP67 Type 4/4X/13/3R enclosure the L101X is suitable for all environments. Available with a choice of mounting options and seven lens colours. SIL1 & SIL2 Route 2H compliant to IEC61508 (2010) as standard.

Features

- EN54-23 VAD fire beacon – CPR compliant
- UL1638 private mode fire alarm use
- UL1638 emergency warning mode use
- UL1638 general signaling use
- CAN/ULC-S526 fire alarm use
- Automatic synchronisation
- Continuously rated
- Dual M20 or 1/2"NPT clearance cable entries
- Duplicate pluggable cable terminations – Class A
- Ingress protection IP66/IP67 Type 4/4X/13/3R
- 3 user selectable flash rates
- Diode polarized for use in supervised circuits
- UL Marine approved

Approvals

- UL/cUL/ULC – File ref: E216937
- CSFM listing: 7300-2279:0510
- VdS CPR: (EN54-23) 0786-CPD-21247
- VdS: G211077
- EAC CU TR 043/2017: B.00291/21
- EAC: RU D-GB.GA05.B.12595-20
- RMRS Marine: No. 19.00193.278
- DNV Certificate no.: TAA00003HR
- SIL1 & SIL2 compliant to IEC61508 (2010)
- CE, UKCA



Specification

Energy:	5 Joules(5Ws)
Flash rate:	1Hz (60 fpm) DC units: 1.5Hz (90 fpm) & Double strike
Peak Candela:	500,000 cd – calculated from energy (J)
Effective cd:	250 cd – calculated from energy (J)
Peak Candela:	86,935 cd* – measured ref. to I.E.S.
Effective cd:	200 cd* – measured ref. to I.E.S.
Lens colours:	Amber, Blue, Clear, Green, Magenta, Red & Yellow
Tube life:	Emissions may reduce to 70% after 8 million flashes
Safety Integrity Level:	SIL1 and SIL2 Route 2H IEC61508 (2010)
Ingress protection:	IP66/IP67 Type 4/4X/13/3R
Enclosure material:	High impact UL94 V0 & 5VA FR PC
Enclosure colour:	Red (RAL3000), Grey (RAL7038) & White
Lens colour filter:	Field replaceable UV stable PC
Cable entries:	2 x M20, 1/2"NPT clearance cable entries with blanking plugs
Terminals:	0.5 – 2.5mm² (20-14 AWG)
Line monitoring:	Diode polarized for use in supervised circuits
Operating:	-40 to +66°C [-40° to +151°F]
Storage:	-40 to +70°C [-40° to +158°F]
Relative humidity:	95% at 20°C [68°F]
Vibration test:	35Hz for a duration 4Hr (UL1638)
Jarring test:	3ft/lb Energy (UL1638)
Impact test:	3x 5lb (UL1638)
MTBF DC:	234.16 years / 2,051,282 hours – MIL 217
MTBF AC:	265.17 years / 2,322,880 hours – MIL 217
Weight:	0.20kg / 0.44lbs

EN54-23

Information:

Unit:	Cat. C [Ceiling]	Cat. W [Wall]	Cat. O [Open]	Power
L101X 24Vdc Clear	C-9-6.8 V=326.9m³	W-2.4-4.8 V=55.3m³	O-4.8-10 V=230.4m³	6W
L101X 24Vdc Red	C-3-2.6 V=15.9m³	n/a n/a	O-1.9-3.6 V=13.0m³	6W
L101X 48Vdc Clear	C-9-7 V=346.4m³	W-2.5-5 V=62.5m³	O-5-10 V=250.0m³	8.4W
L101X 48Vdc Red	C-3-3 V=21.2m³	n/a n/a	O-2-4 V=16.0m³	8.4W

Part Codes

Variable:	Identifier: Description:	
Product type:	L101X	Xenon strobe beacon
Voltage:	DC012	12Vdc/ac (10-14Vdc)
	DC024	24Vdc/ac (20-28Vdc)
	DC048	48Vdc (42-52Vdc)
	AC048	48Vac 50/60Hz
	AC115	115Vac 50/60Hz
	AC230	230Vac 50/60Hz
Back box/cable entries: [e]	B	Back box without mounting lugs – 1 x rear
	M	20mm entry
	S	Back box with mounting lugs – 2 x M20/1/2"NPT clearance Back box without mounting lugs – 2 x M20, 1/2"NPT clearance
Stopping plug material: [m]	A	ABS
	X	Stopping plug not present. Must be selected for B type back box
Equip. tag/Duty label: [s]	0	No equip. tag or Duty label
	1	316 (A4) St/St Equip. tag/Duty label
	2	Metalised Polyester Equip. tag/Duty label
Product version: [v]	A	UL/cUL, VdS, CPR, RMRS, EAC, CE, DNV, UKCA – SIL1 & SIL2
Product option: [o]	1	Standard product
	X	Custom configuration – contact E2S
Enclosure: [x]	R	Red
	G	Grey
	W	White
Lens colour: [y]	A	Amber
	B	Blue
	C	Clear
	G	Green
	M	Magenta
	R	Red
	Y	Yellow
NOTE:	EN54-23: Red & Clear lens colours UL1638 Private mode fire: All lens colours UL1638 Emergency mode: Clear, Amber, Green & Yellow lens colours	

Current Consumption

Product Version:	Nominal Voltage:	Voltage Range:	Current Consumption:	Max Current:	In Rush
DC012	12Vdc/ac	11.5-14Vdc	341mA/380mA	531mA 14Vdc / 341mA 14Vac	
DC024	24Vdc/ac	20-28Vdc	250mA/300mA	271mA 20Vdc / 426mA 28Vac	847mA <5.5ms
DC048	48Vdc	42-54Vdc	170mA	160mA 42Vdc	
AC048	48Vac	±10% 50/60Hz	250mA	360mA 52.8Vac	
AC115	115Vac	±10% 50/60Hz	70mA	101mA 126.5Vac	
AC230	230Vac	±10% 50/60Hz	35mA	58mA 253Vac	

