

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

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
- 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 +55°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, 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: |
|------------------|------------------|----------------|----------------------|---------------------------|
| DC012 | 12Vdc/ac | 11.5-14Vdc | 341mA/380mA | 531mA 14Vdc / 341mA 14Vac |
| DC024 | 24Vdc/ac | 20-28Vdc | 250mA/300mA | 271mA 20Vdc / 426mA 28Vac |
| 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 |

