L101H LED Beacon

The L101H is a compact, high output LED beacon ideal for all signalling applications including fire, status indication, security and process control. UL, cUL and ULC approved.

The array of 18 high output LED's features multiple flash modes and a steady mode. The fire retardant, UV stable IP66/IP67 Type 4/4X/13/3R enclosure ensures the L101H 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

- UL1638 private mode fire alarm 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
- 7 flash modes plus Steady mode
- Diode polarized for use in supervised circuits
- UL Marine approved

Approvals

- UL/cUL/ULC – File ref: E216937
- CSFM listing: 7300-2279:0510
- 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

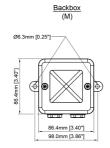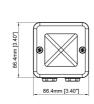|	
Light source:	High intensity L.E.D. array. 18 x Cree© SMT White LED
Settings:	1. High Power Steady 2. Blinking – 425ms ON 75ms OFF 3. 1.0Hz (60 fpm) – 200ms ON 800ms OFF 4. 1.33Hz (80fpm) – 150ms ON 600ms OFF 5. Double Flash 6. Triple Flash 7. 2.0Hz (120fpm) – 125ms ON 375ms OFF 8. Temporal Pattern Flash
High Power Steady:	180 cd – measured ref. to I.E.S.
1Hz Flash cd:	113 cd – measured ref. to I.E.S.
LED life:	60,000 hours
Cable size:	0.5 to 2.5mm² (20-14 AWG)
Lens colours:	Amber, Blue, Clear, Green, Magenta, Red, Yellow
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 +70°C [-40° to +158°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:	228.08 years / 1,998,002 hours – MIL 217
MTBF AC:	164.73 years / 1,443,001 hours – MIL 217
Weight:	0.20kg / 0.44lbs

Part Codes

Variable:	Identifier:	Description:
Product type:	L101H	LED beacon
Voltage:	DC024 AC230	12Vdc (10-14Vdc)/24Vdc (16-33Vdc) 230Vac/dc (48-260Vac/dc) 50/60Hz
Back box/cable entries: [e]	B M S	Back box without mounting lugs – 1 x rear 20mm entry 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 X	ABS Stopping plug not present. Must be selected for B type back box
Equip. tag/Duty label: [s]	0 1 2	No equip. tag or Duty label 316 (A4) St/St Equip. tag/Duty label Metalised Polyester Equip. tag/Duty label
Product version: [v]	A	UL/cUL, ULC, RMRS, EAC, CE, UKCA – SIL1 & SIL2
Product option: [o]	1 X	Standard product Custom configuration – contact E2S
Enclosure: [x]	R G W	Red Grey) White
Lens colour: [y]	A B C G M R Y	Amber Blue Clear Green Magenta Red Yellow

Current Consumption

Product Version:	Nominal Voltage:	Voltage Range:	Current Steady Mode:	Current 1Hz Flash:	Current 1.5Hz Flash:	Current 2Hz Flash:
DC024	12Vdc	10-14Vdc	167.5mA	79.5mA	84mA	87mA
DC024	24Vdc	16-33Vdc	178.5mA	87mA	91mA	96mA
AC230	48Vac/dc 115Vac/dc 230Vac/dc	48-260Vac/dc	115mA @ 48Vac/dc 85.5mA @ 115Vac/dc 53mA @ 230Vac/dc	60mA @ 48Vac/dc 34mA @ 115Vac/dc 19mA @ 230Vac/dc	58mA @ 48Vac/dc 37.5mA @ 115Vac/dc 19.5mA @ 230Vac/dc	62.5mA @ 48Vac/dc 40mA @ 115Vac/dc 23.5mA @ 230Vac/dc

Backbox (B)

Backbox (M)

Backbox (S)

Ø6.3mm [0.25"]

86.4mm [3.40"]

86.4mm [3.40"]

86.4mm [3.40"]

86.4mm [3.40"]

86.4mm [3.40"]

98.0mm [3.86"]

86.4mm [3.40"]

Interior View (Lid Removed)
1:1 Scale

Pilot drilling positions (2x)

45°

BESA Pilot drilling positions (4x) on 50.8 (2") Pitch Circle

M20 Knockout Position

60.3mm [2.37"]

50.8mm [2.00"]

50.8mm [2.00"]

M20 Stopping Plug

M20 Stopping Plug

82.2mm [3.24"]

92.7mm [3.65"]

92.7mm [3.65"]

85.1mm [3.35"]

114.2mm [4.50"]

84.8mm [3.34"]