



ZONE 1 TYPE SICE-LXS-WHT-15-3 MAIN & SECONDARY MARINE SIGNAL LIGHT STATION

Main white lantern station, led type, with very high efficiency & long life. It is suitable for marking the fixed obstacles over the sea, in compliance with IALA recommendations, where a range of 15 nautical miles is required. This lantern contains 3 tiers of white LEDs, each tier equipped with 48 LEDs. Each tier is driven by one dedicated and independent "driver & coder circuit", at constant controlled current. When the mains power supply is available, the lantern work as "MAIN" (with light range of 15 n.m.). Instead, when the mains power supply is not available and the navaid's lanterns are powered by back-up battery bank, the lantern work as "SECONDARY" (with light range of 10 Nautical Miles). Inside this lantern only the LED tiers are installed, no other devices and no moving components are present. The photocell and "U" coder & driver circuits are placed externally, so the reliability of this equipment is very high.



SIGNAL LIGHT STATION
SICE-LXS-WHT-15-3
INCLUDING PEDESTAL

Main advantages:

- ✓ Long lifetime >10+ years life expectancy (expected 25 years)
- ✓ Led constant current drivers
- ✓ Main & Secondary lights in the same enclosure
- ✓ High efficiency for low energy consumption
- ✓ Excellent value for money
- ✓ Reduced connection cable size
- ✓ Reduced dimensions
- ✓ Easy installation
- ✓ Very low maintenance required
- ✓ No moving parts placed inside the lanterns. Only the LEDs are placed inside this equipment.
- ✓ No electronic control circuits are placed inside the lantern. The "constant current driver and coder circuits" are placed in a suitable junction box placed next to the lantern, in the support pole, or in the centralized control panel.
- ✓ The eventual failure of one led tier reduces the range but not affect the working of the other tiers. In this case the range is reduced from 15 Nautical Miles to >14 Nautical Miles (in MAIN mode) and from 10 Nautical Miles to >9 Nautical miles (in SECONDARY mode)

MAIN TECHNICAL DATA:

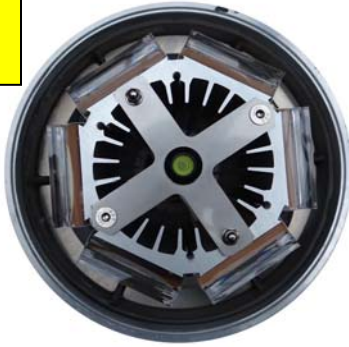
✓ -Control circuit driver & coder supply voltage	:	Standard 24Vdc (range from 21 to 33Vdc) (available others voltage on request)
✓ -Supply voltage	:	150Vdc (+-5% approx., provided by coder-driver circuit)
✓ -15 n. mile expected power from mains supply	:	350W peak approx. (600Wh/day for 14 hours activation/day) (*) (**)
✓ -15 n. mile effective intensity	:	>15000cd (during dot) (*)
✓ -10 n. mile expected power from battery	:	54W peak approx. (100Wh/day for 14 hours activation/day) (*) (**)
✓ -10 n. mile effective intensity	:	>1500cd (during dot) (*)
✓ -Vertical divergence	:	8 degrees to 50%; asymmetric (+1.5 / - 6.5)
✓ -Horizontal divergence	:	360 degrees
✓ -Expected life time minimum	:	>25.000 working hours (>35 years approx. with "U" code) (*)
✓ -Lumen maintenance	:	90% at 25.000 hours (35 years approx. with "U" code) (*)
✓ -Working temperature range	:	From -52°C to +60°C
✓ -Coder & driver circuits	:	External
✓ -Photocell	:	External
✓ -Synchronization	:	Possible through coders circuits
✓ -Marking	:	Ex II 2GD - Ex de IIC T4 - Ex tD A21 IP65 T 135°C
✓ -ATEX Certificate Number	:	INERIS 01ATEX 0019X
✓ -(*) Expected IALA "U" CODE (standard)	:	0.4" on; 0.5" off; 0.4" on; 0.5" off; 1.2" on; 12" off (15" total period)
✓ -(**) Driver & coder efficiency included	:	



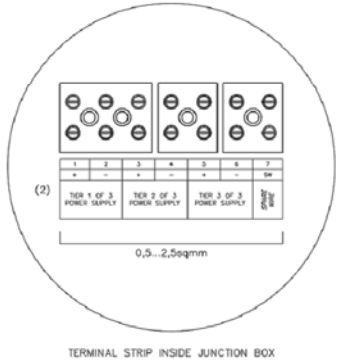
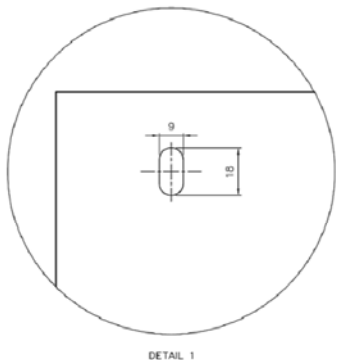
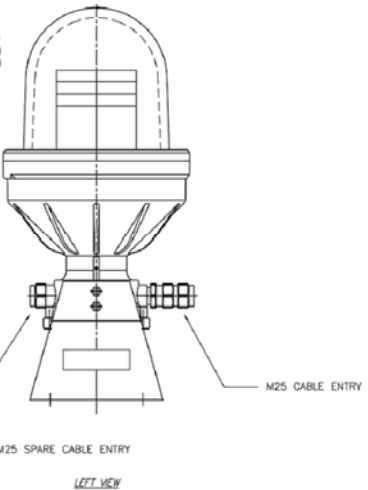
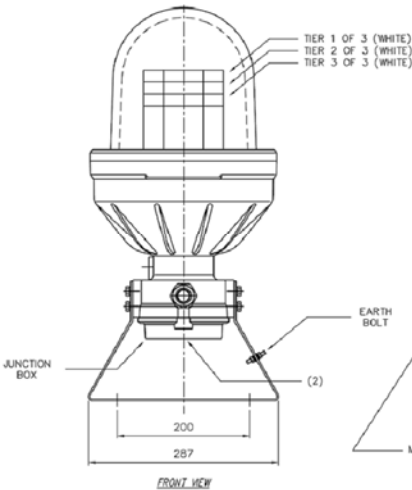
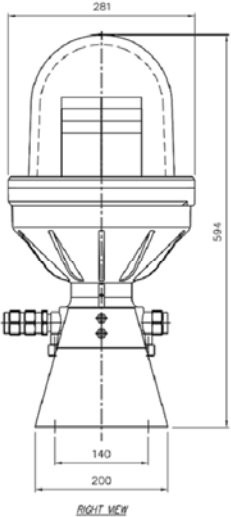
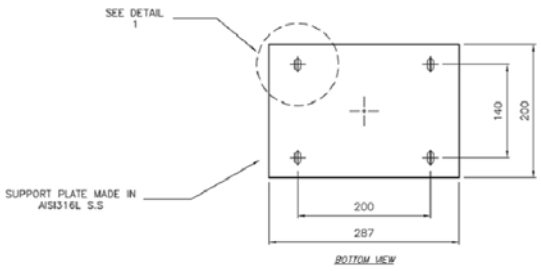
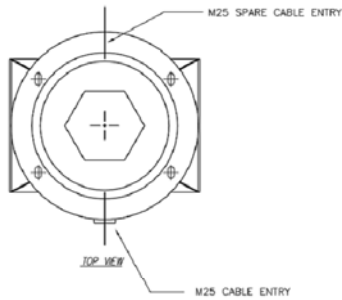
**ZONE 1 TYPE SICE-LXS-WHT-15-3
MAIN & SECONDARY MARINE SIGNAL LIGHT STATION**



Internal layout with LED arrays,
LED lenses, heatsink and
bubble highlighted



Terminal strip junction box
placed in the bottom side



MAIN MECHANICAL DATA:

- Body material : Marine grade aluminium painted for off-shore use
- Painting color : RAL 7035 (other colors available on request)
- Pedestal : AISI 316L Stainless Steel not painted
- Cover : Borosilicate fused tempered glass, self-cleaning
- LED manufacturer : CREE
- LED quantity : 48 for each tiers (144 LEDs in total)
- Connection junction box : Included in the equipment
- Connection terminals : Suitable for wires from 0.5 to 2.5 mm²
- Signal light weight : 15kg
- Optional accessory : Support pole

Document can be subjected to modifications, without prior notice