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LSDS

LED RUNWAY DISTANCE SIGNS

COMPLIANCES

NATO: STANAG 3316

APPLICATIONS

LSDS signs, inside lighted, are designed to provide to the pilot, either by day or night, the following different indications:

- the runway distance remaining from the runway end in thousands of feet
- the position of the pendant cables for arrester hook engagement

Colours may be white or yellow on black background depending on the application as defined by STANAG Specs

BENEFITS

- 60000 hours LED rated life
- Message on one or both faces
- Four barrettes of 12 LEDs, 2 per each side of the sign, for optimum illuminance of both the faces
- No inner reflector needed to obtain the photometric performances required by the specifications
- Power supply from series circuits through isolating transformers. See TABLE C for isolating transformer choice
- Fully compatible with existing AFL infrastracture
- Operating with any topology of CCRs designed in compliance with IEC or FAA requirements
- Constant average sign luminance at any series current step from 2.8 A through 6.6 A

FEATURES AND PERFORMANCES

- Designed in compliance with FAA AC 150/5345-44
- Structural integrity assured by extruded aluminium panels
- Matt black external finishing
- Metric stainless steel hardware
- Long life, UV and abrasion resistant sign faces with messages realized by means of translucent adhesive coloured sheets, inside applied
- Breakable couplings may be pre-installed on concrete pad and sign lowered onto them for easy installation
- Enclosed power entry through protective flexible pipe
- External power disconnecting switch breaks all electrical connections to the sign for safe maintenance
- Wind speed: 322 km/h (mode 2 - FAA AC 150/5345-44)
- Protection degree: IP34
- Temperature range: -40°C to +55°C

INSTALLATION

- On concrete platform by means of floor flanges

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PHOTOMETRIC PERFORMANCES

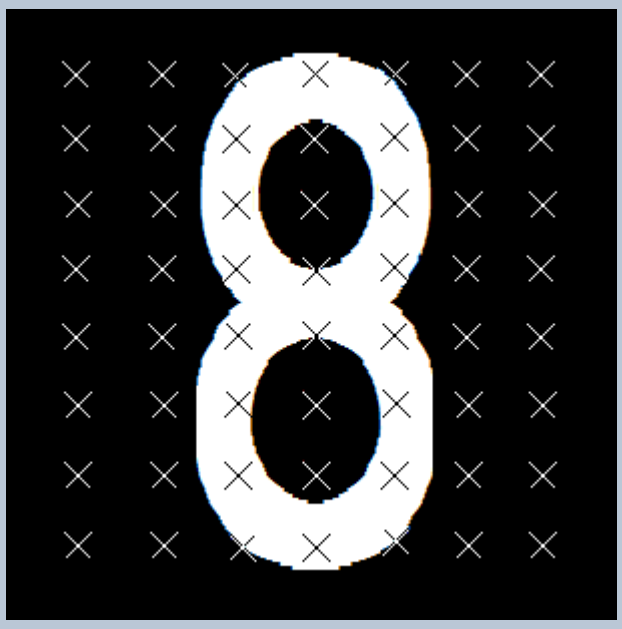

Fig. 1 Example of acquisiion grid of Luminance values [cd/m^2] for Distance Sings

Sings	Color	Typical value of mean luminance [cd/m^2]
Runway Distance Sign	WHITE	600
Arrester Cable Sign	YELLOW	400

TABLE A – POWER REQUIRED TO REGULATOR			
Current in the series circuit	6.6 A	4.8-6.6A	2.8-6.6A
Power required to regulator	80 VA	110 VA	190 VA

TABLE B - POWER FACTOR			
Current in the series circuit	6.6A	4.8-6.6A	2.8-6.6A
Power Factor	≥ 0.90	≥ 0.90	≥ 0.90

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LSDSD1 - 1 – 02 - 70

Basic P/N:

Use Code:
D = Runway Distance Sign
B = Arrester Cable Sign
X = Obligation Sign Use Barrier Stop for Missed Takeoff

Number of Faces:
1 = Single Face
2 = Double Face

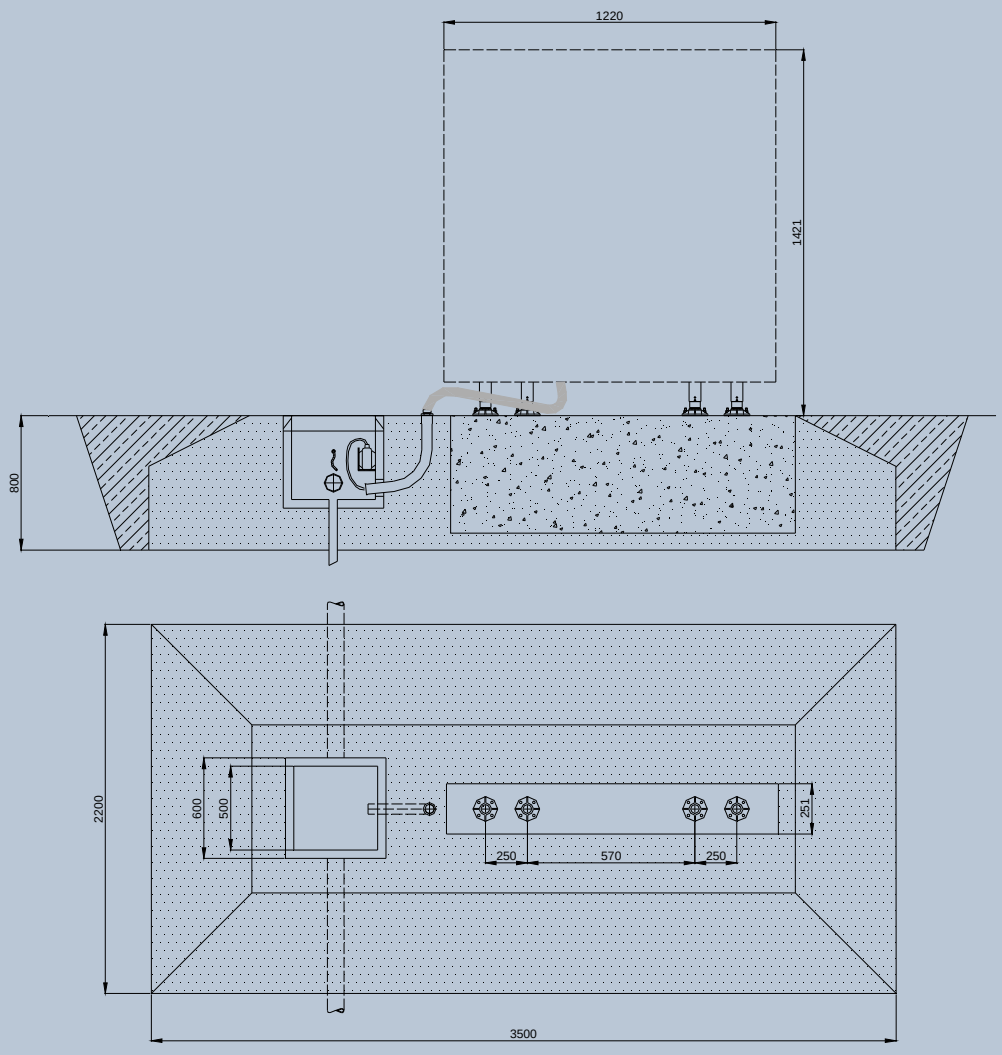
Number of Modules:

Always installed:
02 = Tether (2)
70 = Bird Spikes

- Floor flanges included; anchor bolts not included
- The legends must be specified for each sign
- When facing side A, the power entry is on the right

TABLE C – ISOLATION TRANSFORMERS

CURRENT STEP	TRANSFORMER SIZE
6.6 A	100 W
4.8 - 6.6 A	150 W
2.8 - 6.6 A	200 W



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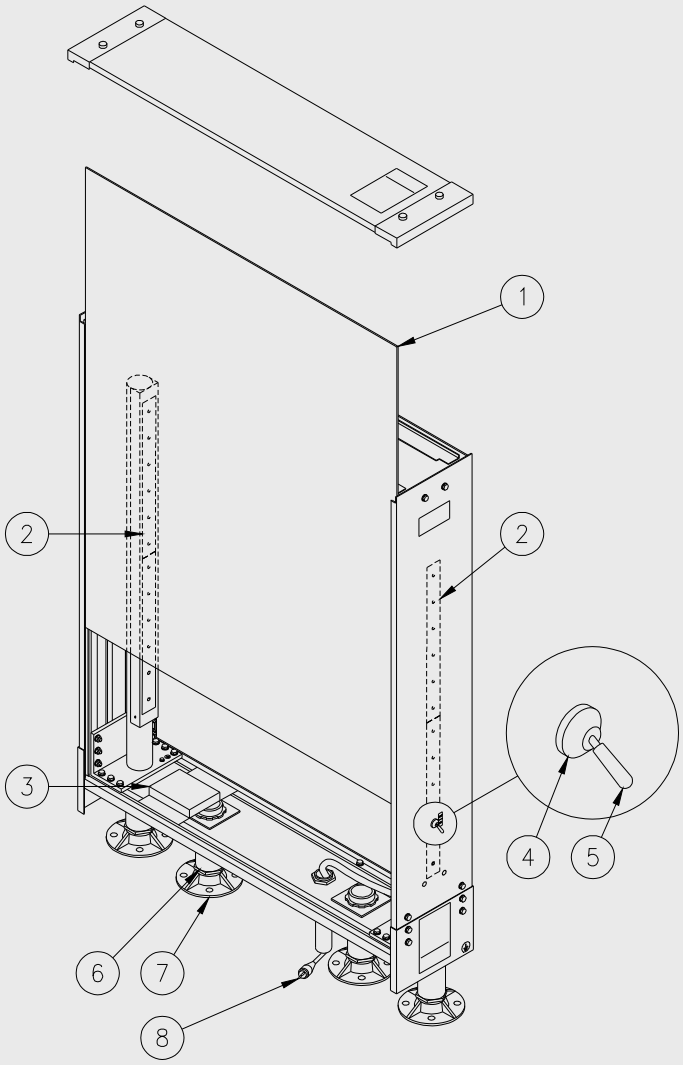
MAIN COMPONENTS OF THE SINGS

1 Face panel
2 LED card F188
3 Power supply card F209
4 Rubber cap for switch
5 ON-OFF Switch
6 Breakable coupling
7 Floor flange
8 Cable lead with plug

Refer to the relevant technical manual for the complete list of the available spare parts



ACCESSORIES

013.0008	Galvanized steel pipe elbow with upper threaded end only (2” - 11 GAS thread)
315.3210	Galvanized steel pipe elbow with both threaded ends (2” - 11 GAS thread)
013.0010	Set of two ryton rings for receptacle support inside pipe elbow
315.1228	Base L-867, Class IA, size B, 24” Deep
315.1062	Baseplate for L-867 base with gasket and cable clamp (2” - 11 GAS thread)
315.4150	M12x60 anchoring rod, 250 mm long, complete with hardware(4 pieces for each floor flange)

For any information about isolating transformers and connectors, please see the specific catalogue pages

Shipping Weights and Volumes	
	Light Unit
Weight (kg)	65
Volume (m^3)	0,520

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