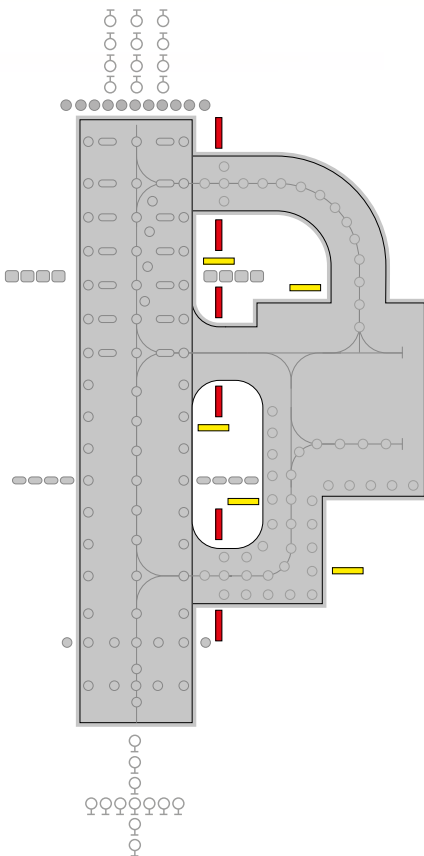




IR858I

LED airfield guidance signs,
high intensity
lighting solutions



Applications

CAT I/II/III all weather operation airfield ground lighting (agl) systems.

Compliant with Latest International Standards*

- ▶ ICAO Annex 14. Vol 1
- ▶ FAA Engineering Brief No. 67[†]
- ▶ TP 312
- ▶ EASA
- ▶ Stannag 3316 (NATO)

* As applicable to the application, compliance with other civil aviation and military regulations confirmed on request

[†] Intensity Ratio Requirement

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Mechanical Performance

For strength and durability the IR858I, sign is constructed from corrosive resistant aluminium box section extrusion which is then powder coated painted. All hasps and clasps are made from stainless steel.

Electrical Performance

The Sign Power Requirements table provides the Power Consumption for each sign size and the corresponding Isolation Transformer. The table applies to both single and double sided signs and 3-step and 5-step regulators. The Power Consumption value is the electrical load presented to the AGL Regulator and takes into account electrical losses and based on a power factor of 0.995

Information Sign Power Requirements					
Sign Face Size		Enclosure		Recomended Isolation Transformer (Watts)	Sign Power Consumption (VA)
Height (mm)	Length (mm)	Height (mm)	Length (mm)		
600*	600 *	685	685	45	20.0
600	900	685	985	45	25.0
600	1200	685	1285	45	30.0
600	1500	685	1585	45	36.0
600	1800	685	1885	45	41.0
600	2100	685	2185	65	47.0
600	2400	685	2485	65	57.0
600	2700	685	2785	65	62.0
600	2915	685	3000	100	67.0

Mandatory Instruction Sign Power Requirements					
Sign Face Size		Enclosure		Recomended Isolation Transformer (Watts)	Sign Power Consumption (Watts)
Height (mm)	Length (mm)	Height (mm)	Length (mm)		
800	900	885	985	45	41.0
800	1200	885	1285	65	57.0
800	1500	885	1585	100	67.0
800	1800	885	1885	100	78.0
800	2100	885	2185	100	89.0
800	2400	885	2485	150	105.0
800	2700	885	2785	150	116.0
800	2915	885	3000	150	127.0

* Size not available for double sided option

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Environmental Conditions

- ▶ Ambient Temperature -55 °C to +55°C (-67 °F to +131°F)
- ▶ Storage Temperature -55 °C to +55°C (-67 °F to +131°F)
- ▶ Ingress Protection IP65

Sign Fascia

- ▶ 4mm thickness
- ▶ UV stabilised material
- ▶ 5 years+ protection from UV degradation*

Photometry

Specification

Mandatory Instruction Sign - Appendix 4

Average Luminance (minimum) RVR less than 800m

Red	30 cd/m ²
White	300 cd/m ²

Ratios

Colour (red/white) range	1:5 to 1:10
Adjacent points (main grid points) less than	1.5:1
Whole sign face less than	5:1

Typical Measured Values

Average Luminance

Red	65 cd/m ²
White	360 cd/m ²

Ratios

Colour (Red/White)	1:5.4
Adjacent points white (main grid points)	1.04:1
Whole sign face	1.10:1

Photometry

Specification

Information Sign - Appendix 4

Average Luminance (minimum) RVR less than 800m

Yellow	150 cd/m ²
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Ratios

Adjacent Points (main grid points) less than	1.5:1
Whole sign face less than	5:1

Typical Measured Values

Average Luminance

Yellow	323 cd/m ²
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Ratios

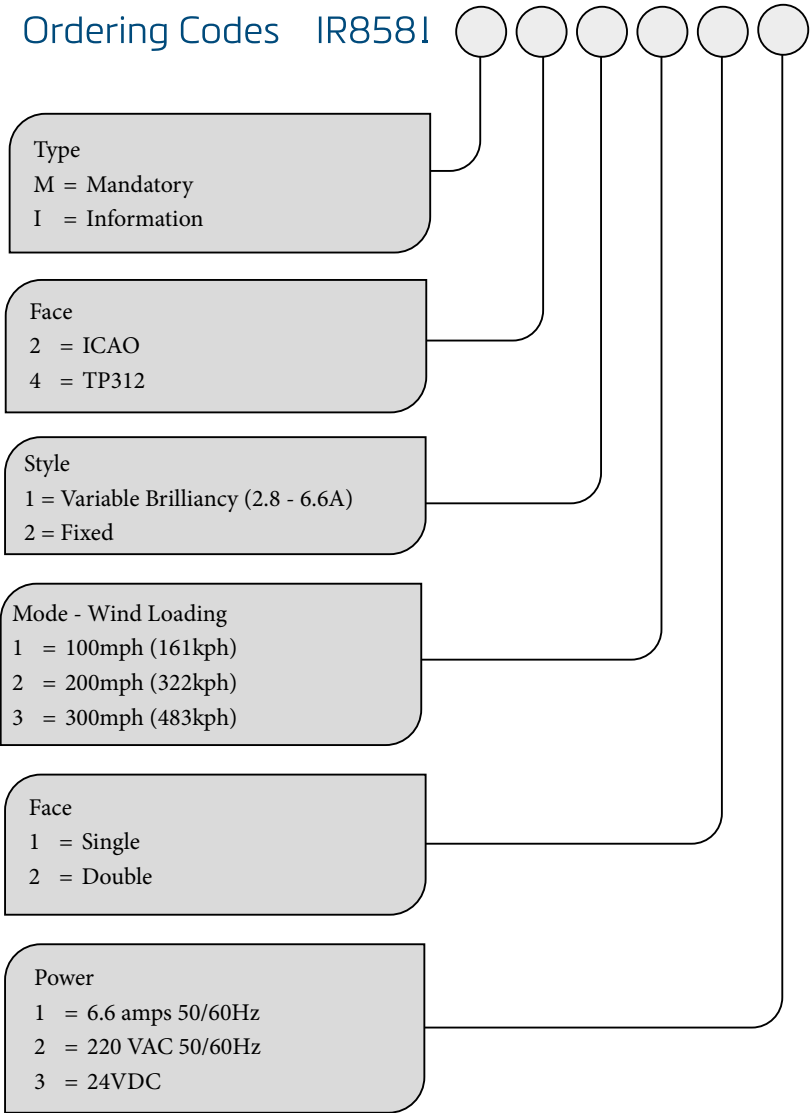
Adjacent points (main grid points)	1.02:1
Whole sign face	1.10:1

LED Lamp Life

Lamp life calculated to be in excess of 60,000hrs

*exposure to De-icing chemicals, cleaning chemicals and sand blasting may have a detrimental effect on the UV protection.

Ordering Codes IR858I



Further Options upon request

- Tiedown tether
- Bird Spikes / wire
- Isolator switch
- Open Circuit detect

Message Element

Inscription to be specified by the customer.

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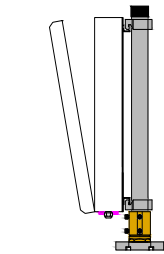
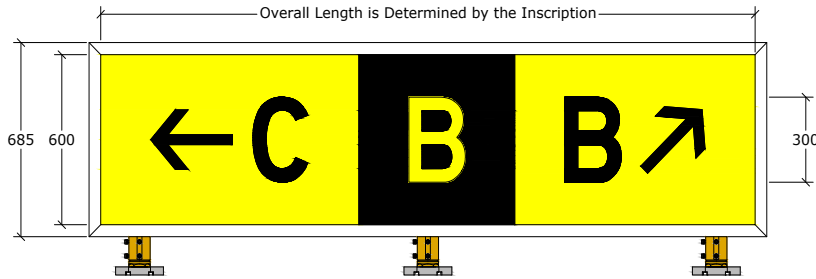
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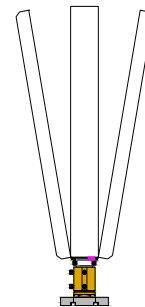
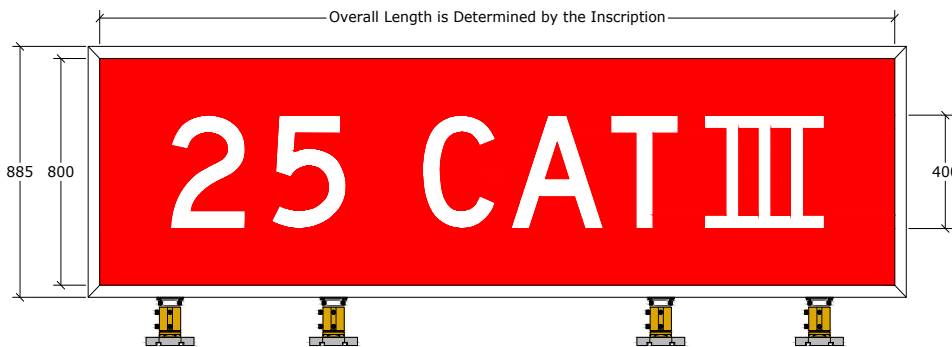
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Dimensions



End view single sided sign



End view double sided sign

Dimensions are nominal, number of supports determined by inscription.

Packaging

- Confirmed on request for quotation



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atg airports reserve the right to change technical data and details at any point in time. Errors may have occurred

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