# RELIANCE

# LED Apron Maneuvering Omnidirectional Inset, 8-inch





# **Compliance with Standards (current versions)**

ICAO Annex 14, Volume 1

**IEC** 61827

EASA CS-ADR-DSN

Canada TP 312 Australia MOS 139

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#### Uses

The RELIANCE<sup>™</sup> 8-inch omnidirectional low-protrusion inset LED light fixture is provided with red or yellow LEDs. This fixture can be used in the following applications:

· Aircraft Stand Maneuvering Guidance

# **Features and Benefits**

## Efficiency

- · RELIANCE IQ with integrated intelligence
- RELIANCE with integrated fail-open technology
- Operates on CCRs designed in compliance with IEC or FAA requirements
- · Easy maintenance due to modular design, few mechanical parts
- No visual flicker. PWM is used for some applications to optimize the LED performance and light fixtures show no visual flickering.

# Sustainability

- Light-emitting diode (LED) technology that offers a long-lasting light source with low power consumption
- IP68 protected, anodized aluminum housing designed for harsh weather environments (all fastenings in stainless steel)
- Protected top cover for improved durability and protection from external forces
- · Compatible with existing infrastructure
- Fixture compatible with all ADB SAFEGATE 8-inch bases

# Safety

- Light engine protected against towbar impact and high load upon maneuvering vehicles and aircrafts
- Shorted LED detection according to FAA Engineering Brief No.67D
- Available with IR as an option

## **Accessories**

Refer to the RELIANCE inset user manual for 8-inch lights.

# Power Supply

An integrated, encapsulated 6.6A electronic converter. Two-pole L-823 FAA Style 6 (2-pin) plug for connection to the transformer. Power factor typically > 0.95 at 6.6 A. Power consumption 35 W.

French (flat 3-pin) plugs are also available for the French market.

#### Note:

- Refer to the appendix of RELIANCE inset user manual for 8-inch lights for a complete power table and the cable loss formula.
- · Refer to the annex section.

# Maintenance and Installation

Refer to the RELIANCE inset user manual for 8-inch lights and to the interoperability information for installation in a specific base.

# **Dimensions and Weight**

Outer diameter / depth Approx. 203 mm / 81.35 mm

8 in / 3.2 in3

Weight without packaging Approx. 2.8 kg

6.1 lb

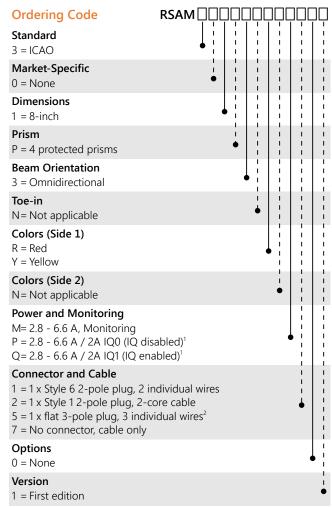
# **Operating Conditions**

Operating temperature  $-60 \,^{\circ}\text{C}$  to  $+55 \,^{\circ}\text{C}$  /  $-76 \,^{\circ}\text{F}$  to  $+131 \,^{\circ}\text{F}$ Storage temperature  $-60 \,^{\circ}\text{C}$  to  $+80 \,^{\circ}\text{C}$  /  $-76 \,^{\circ}\text{F}$  to  $+176 \,^{\circ}\text{F}$ 

**Relative humidity** Up to 100%



# **RELIANCE**



# Notes

- 1 The IQ-functionality allows control and monitoring of the RELIANCE IQ. IQ1 fittings are pre-configured for the specific position at delivery. This function is disabled in IQ0 fittings but could be enabled in a later state. IQ light fixtures are only available as one connector option but both sides can be controlled individually if they are configured as IQ1 with an ILCMS.
- <sup>2</sup> French 3-pin plug

**Note:** Deep base and / or adapter rings to be ordered separately.



# **ANNEX**

Fixture type	Fixture load	Isolation transformer			CCR load
		Rating	Loss	Efficiency	
RS -AM (omnidirectional, inset)	35 VA	45 W	7 VA	0.85	45 VA

## Note:

- Extra losses in secondary cables or due to extra equipment (e.g. ILCMS remotes) are not included in above table; these extra losses will result in a higher required size of isolation transformers.
- · Extra losses in primary cables are not included in above table; these extra losses will result in a higher required CCR load.
- Efficiency of the transformer may vary depending on manufacturer.

For more information about the product, including manuals and certifications, please see our Product Center on the ADB SAFEGATE website: www.adbsafegate.com.

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