

RELIANCE

LED Apron Maneuvering Omnidirectional Inset, 8-inch

Compliance with Standards

ICAO Annex 14, Volume 1

IEC 61827

EASA CS-ADR-DSN

Canada TP 312

Australia MOS 139

CE

Uses

The RELIANCE™ 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
- RELIANCE Non-MON, non monitored lights
- 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, 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 from maneuvering vehicles and aircrafts
- Shorted LED detection according to FAA Engineering Brief No.67D

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.

NoteColonSymbol

- 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 UM-5027 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	-55 °C to +55 °C / -67 °F to +131 °F
Storage temperature	-60 °C to +80 °C / -76 °F to +176 °F
Humidity	Up to 100%

RELIANCE

Ordering Code

	Standard	Market-Specific	Dimensions	Prism	Beam Orientation	Toe-in	Colors (Side 1)	Colors (Side 2)	Power and Monitoring	Connector and Cable	Options	Version
RSAM	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Standard

3 = ICAO

Market-Specific

0 = None

Dimensions

1 = 8 inch

Prism

P = 4 protected prisms

Beam Orientation

3 = Omnidirectional

Toe-in

N = Not applicable

Colors (Side 1)

R = Red

Y = Yellow

Colors (Side 2)

N = Not applicable

Power and Monitoring

S = 2.8 - 6.6 A, non-Monitored - power only

M = 2.8 - 6.6 A, Fail-Open monitoring

P = 2.8 - 6.6 A / 2A, IQ0 integrated (IQ disabled)

Q = 2.8 - 6.6 A / 2A, IQ1 integrated (IQ enabled)

Connector and Cable

1 = 1 x Style 6 2-pin plug, **2 individual wires**

5 = 1 x flat 3-pin plug, **3 individual wires**¹

Options

0 = None

Version

1 = First version

Ordering Code Notes

- Deep base and/or adapter rings to be ordered separately.
- 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.

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

NoteColonSymbol

- 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.

¹ French 3-pin plug (1F)