

# 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
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
- 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

<b>Outer diameter / depth</b>	Approx. 203 mm / 81.35 mm 8 in / 3.2 in3
<b>Weight without packaging</b>	Approx. 2.8 kg 6.1 lb

### Operating Conditions

<b>Operating temperature</b>	-60 °C to +55 °C / -76 °F to +131 °F
<b>Storage temperature</b>	-60 °C to +80 °C / -76 °F to +176 °F
<b>Relative humidity</b>	Up to 100%

## Ordering Code

### 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 (Power only with 2 cord set option, STD)

M = 2.8 - 6.6 A, with monitoring (Fail-Open with 2 cord set option, MON)

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

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

### Connector and Cable

1 = 1 x Style 6 2-pin plug, 2 individual wires (1C)

5 = 1 x flat 3-pin plug, 3 individual wires<sup>1</sup>

### Options

0 = None

### Version

1 = First version

### Notes

<sup>1</sup> French 3-pin plug (1F)

R S A M

Note:

- 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.

# RELIANCE

## 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](http://www.adbsafegate.com).*