

RELIANCE

Taxiway Edge

Omnidirectional Inset, 8-inch



Compliance with Standards (current versions)

FAA	L-852T(L)
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 blue or yellow LEDs. This fixture can be used in the following applications:

- ICAO Taxiway Taxiway Edge, FAA L-852T(L)
- Intermediate Holding Position (MOS)

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

Sustainability

- Light-emitting diode (LED) technology that offers a long-lasting light source with low power consumption
- IP68 protected (all fastenings in stainless steel)
- Compatible with existing infrastructure
- Fixture compatible with all ADB SAFEGATE 8-inch bases

Safety

- Failed LED detection according to FAA Engineering Brief No.67D

Accessories

Refer to the RELIANCE user manual of the RELIANCE 8-inch 1-dome omni light.

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.

French (flat 3-pin) plugs are also available for the French market. Please check ordering code.

Note:

- Refer to the appendix of the RELIANCE user manual of the RELIANCE 8-inch 1-dome omni light for a complete power table and the cable loss formula.
- Refer to the annex section.

Maintenance and Installation

Refer to the RELIANCE user manual of the RELIANCE 8-inch 1-dome omni light and to the interoperability info for installation in a specific base.

Dimensions and Weight

Outer diameter / depth	Approx. 203 mm / 81.35 mm 8 in / 3.2 in
Weight without packaging	Approx. 3.4 kg 7.5 lb

Operating Conditions

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

RELIANCE

Ordering Code

Primary Standard

1 = FAA / ICAO¹

Market-Specific

0 = None

Dimensions

1 = 8-inch

Prism

S = 1 standard dome

Beam Orientation

3 = Omnidirectional

Toe-in

N= Not applicable

Colors (Side 1)

B = Blue

Y = Yellow

Colors (Side 2)

N= Not applicable

Power and Monitoring

S = 2.8 - 6.6 A, Non-Monitoring (Power only)

M= 2.8 - 6.6 A, Monitoring (with Fail-open)

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-pole plug, 2 individual wires

5 = 1 x Flat 3-pole plug, 3 individual wires²

Options

0 = None

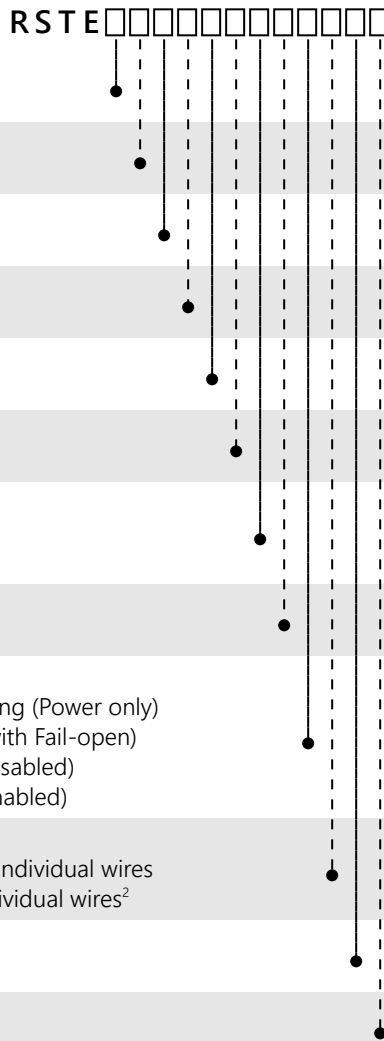
Version Control

1 = First version

Notes

1 Option 1 covers other compliance: MOS.

2 French 3-pin plug



Note:

- Digit 3-4 of the ordering code: TE includes MOS Intermediate Holding Position.
- 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.

ANNEX

Fixture type	Fixture load	Isolation transformer			CCR load
		Rating	Efficiency	Energy Use	
RS -TE (omnidirectional, inset blue)	20 VA	25 W	0.7	8 VA	28 VA
RS-TE (omnidirectional, inset yellow)	15 VA	25 W	0.7	6 VA	21 VA

NOTICE:

- No losses in the secondary cables are considered in the above table.
- No losses in the primary cables are considered in the above table.
- No spare CCR load has been considered in the above table.
- The Isolation transformer efficiency considered in the above table is estimated. These efficiency values depend on the isolating transformer supplier.
- No loads due to extra equipment on the circuit (e.g. ILCMS equipment) are considered in the above table.
- For RELIANCE IQ version:
 - The minimum Isolation Transformer rating is 65W.
 - To allow for communication bandwidth, an overhead of 12VA should be considered when determining the Isolation Transformer rating.
- For RELIANCE Fail-open version:
 - The maximum Isolation Transformer rating is 200W.
- If part of a RELIANCE 2A system:
 - The data provided in the table above is not applicable if part of a 2A reliance system. In this case, please contact your local ADB Safegate representative.

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