

# RELIANCE

Taxiway Edge, Turnpad  
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 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)
- Turnpad (edge) with constant intensity

## Features and Benefits

### Efficiency

- EQ has an internal ILCMS remote with our LINC 360 system providing high data capacity and resisting degradation from various types or radio effects to provide a superior communication platform
- Precision aimed optics enhancing photometric performance and complementing extended LED life
- Reduced bottom pan profile allowing for very shallow base can installation
- LED pulse width modulated (PWM) at 400 Hz optimizing LED performance and eliminating perceptible flicker to a moving human observer throughout the range of brightness steps
- Operates at all steps of constant current regulator technologies designed in compliance with IEC or FAA requirements
- Fully dimmable lights, conforming to the dimming curve of traditional halogen lights
- Low protrusion, high-intensity, Style 3 (< 6.35 mm) inset light fixtures
- No negative slope in front of the prisms

### Sustainability

- Fully encapsulated all-in-one universal power supplies for Runway, Taxiway, Approach and Omni inset families
- Latest generation LEDs providing a long-lasting light source with high efficiency and low power consumption
- Reinforced top cover substantially exceeding standards to improve durability and longevity
- One single family of fixtures covering all runway, taxiway and approach applications
- IP68 rated enclosure designed for harsh environments; all fastenings are stainless steel
- Reinforced prism available as an option
- Compatible with existing infrastructure allowing for direct replacement of existing LED inset fixtures

### Safety

- Improved mechanical design to strengthen and consolidate components, improving the customer maintenance experience
- Fail-open option for compatibility with legacy monitoring systems and optimization of advanced control/ monitoring systems
- Failed-LED Detection as required by Engineering Brief 67D
- Robust lightning protection complying with ANSI/IEEE C62.41-1991; Location Category C2 as required by FAA Eng. Brief 67. Category C2 is defined as a 1.2/50  $\mu$ S – 8/20  $\mu$ S combination wave, with a peak voltage of 10,000 V and a peak current of 5,000 A

### Maintenance and Installation

Refer to user manual UM-5055 for the 8-inch and to the interoperability information for installation on a specific base.

### Dimensions and Weight

Dimensions	203 mm (8 in)
Weight	3.0 kg / 6.6 lb (8 in)

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## 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 Notes

- Digit 1: Option covers also covers compliance with MOS.
- Digits 3-4: TE includes MOS Intermediate Holding Position.
- Deep base and / or adapter rings to be ordered separately.
- Digit 14, option 5: French 3-pin plug.
- Digit 15 of the ordering code: Constant Intensity option available only in Blue.

## Power Supply

- Non-Monitored — Power only
- Monitored — integrated Fail-open technology
- EQ with integrated ILCMS with OFDM technology for use with LINC 360 system

## Ordering Code

### Primary Standard

1 = FAA / ICAO

### 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-Monitored - power only

M = 2.8 - 6.6 A, Fail-Open monitoring

### Connector and Cable

1 = 1 x Style 6 2-pole plug, 2 individual wires

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

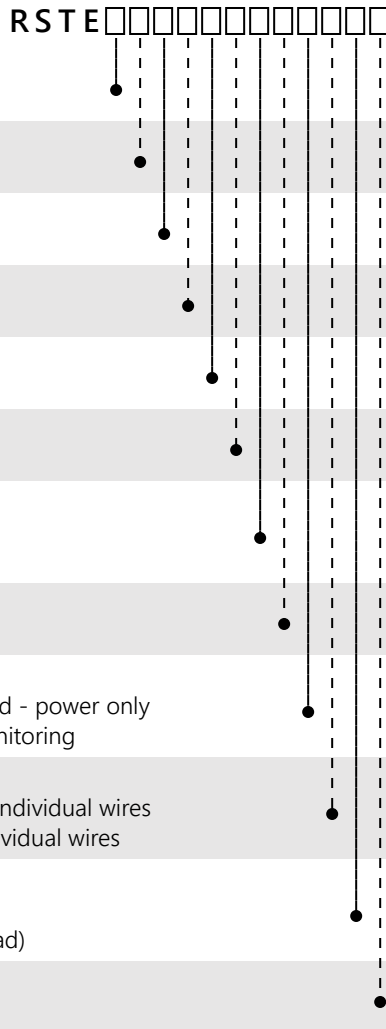
### Options

0 = None

2 = Constant Intensity (Turnpad)

### Version

1 = Version 1



## 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

**Note:**

- EQ fixtures:
  - The isolation transformer must have an additional 8 VA available above the fixture load for communication bandwidth. Size transformer to 65 W on fixture with arctic kit to assure additional 8 VA coverage. Transformers can be safely overloaded by 10%.
  - Legacy BRITE II or AGLAS 2 systems — Order "M" power supply
- Fail-open fixtures:
  - The maximum rating for the isolation transformer is 200 W
- Additional voltage loss when longer secondary cables are used is not included in above table; these additional losses may result in a larger size isolation transformer requirement and must be factored into the circuit load calculation
- Additional voltage loss in primary cable is not included in above table; this additional loss will result in a higher CCR load and must be factored into the circuit load calculation
- Efficiency of the isolation transformer depends on the manufacturer of the transformer

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).