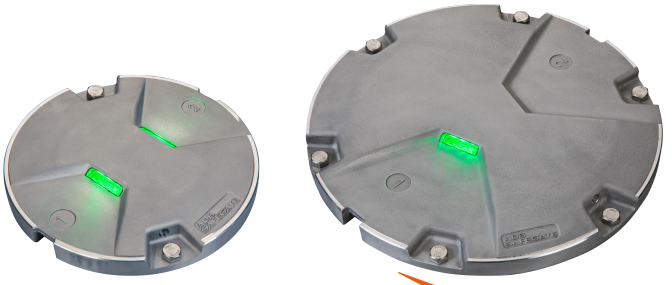
AXON

L-852A(L), L-852B(L), L-852C(L), L-852D(L), L-852J(L), L-852K(L)

LED Taxiway Centerline, Lead-on/Exit, Apron Lead-in Uni- and Bidirectional Inset 8-inch and 12-inch



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Compliance with Standards (current version)

FAA	AC 150/5345-46 and the FAA Engineering Brief No. 67, ETL certified
UFC	3-535-01

Uses

FAA and UFC

- L-852A(L), L-852B(L), L-852C(L), L-852D(L), L-852J(L), L-852K(L) Taxiway Centerline
- Lead-on/Exit
- Apron Lead-in

Features and Benefits

Efficiency

- EQ has an integrated ILCMS remote for use with the 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
- LEDs 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 1.2/50µS – 8/20 µS combination wave, with a peak voltage of 10,000 V and a peak current of 5,000 A

Power Supply

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

Ordering Code

RS□□□□□□□□□□□□□□

Application
TA = L-852A(L)Taxiway Centerline
TB = L-852B(L)Taxiway Centerline
TC = L-852C(L)Taxiway Centerline
TD= L-852D(L)Taxiway Centerline
TJ = L-852J(L) Taxiway Centerline
TK = L-852K(L) Taxiway Centerline

Standards
2 = FAA

Market Specific
0 = None
1 = Buy American Preference (BAP)[1,2]

Dimensions
1 = 8 inch (203 mm) diameter
2 = 12 inch (305 mm) diameter,11.25 inch BC (285 mm)
3 = 8 inch (203 mm) diameter, 4-bolt

Prism
S = Standard
R = Reinforced[8]

Beam Orientation
1 = Unidirectional
2 = Bidirectional

Toe-in
N= None (TA, TB, TC, TD applications)
C = Curved (TJ, TK applications)

Color – Side 1 (Left)
F = F-Green
Y = Yellow
R = Red[6,8]
W= White[6,8]
N= None[7]

Color – Side 2 (Right)
F = F-Green
Y = Yellow
R = Red[6,8]
W= White[6,8]
N= None

Power and Monitoring
S = 2.8 A - 6.6 A, Non-monitored — power only[3]
M= 2.8 A - 6.6 A, Fail-open monitoring[3]
R = 2.8 A - 6.6 A, EQ integrated LINC 360

Cable and connector[6]
1 = 1 x Style 6 2-pole plug, 2 individual wires
2 = 1 x Style 1 2-pole plug, jacketed SO 2-core cable
3 = 2 x Style 6 2-pole plug, 2 individual wires[8]
4 = 2 x Style 1 2-pole plug, jacketed SO 2-core cable.[8]

Options
0 = None
1 = Arctic Kit

Version
1 = Version 1

Ordering Code Notes

EQ light fixtures are only available as a one connector option.

[1] Required for FAA when using AIP funds.

[2] If a 2-cord set fixture is required meeting BAP, digit 13, "Power and Monitoring", must be M.

[3] 2 x Style 1 or 6 options are available under "Cable and Connector".

[4]All Style 1 corded fixtures will include a ground lug. All Style 6 corded fixtures will be provided without a ground lug.

[5] Only available in Digit 13 options S and M and Bi-directional configuration

[6] Color used with L-852D(L) for medium intensity runway edge and threshold applications

[7] L-852J&K(L) unidirectional applications only

[8] Not ETL submitted

Maintenance and Installation

The light fixture can be installed on an 8-inch or 12-inch base. Gaskets are sold separately. Check what gasket and bolts to order depending on base and installation.

Refer to user manual UM-5056 for the 8-inch or 12-inch lights and to the interoperability information for installation on a specific base.

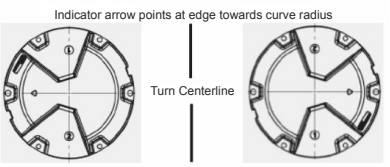
Operating Conditions

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

Dimension and Weight

Dimension	203 mm (8 in)	305 mm (12 in)
Weight	3 kg / 6.6 lb (8 in)	6.8 kg / 15 lb (12 in)

Toe-in Color Coding for L-852J(L) and L-852K(L)



Left and right side determined by viewing fixture from interior turn radius pavement edge. Side 1 is on your left, side 2 is on your right

ANNEX

8-inch and 12-inch light fixtures without Arctic Kit (heater)

Fixture type – 1 cord set [1]	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
Taxiway Centerline L-852(L), bidirectional	16.5 VA	15 W	7.9 VA	24.4 VA
Taxiway Centerline, L-852(L), unidirectional	14.3 VA	15 W	8.51 VA	22.8 VA

8-inch and 12-inch light fixtures with Arctic Kit (heater)

Fixture type – 1 cord set [1]	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
Taxiway Centerline, L-852,(L), bidirectional	55.1 VA	65 W	18.6 VA	73.7 VA
Taxiway Centerline, L-852(L), unidirectional	40.1 VA	45 W	13.8 VA	53.9 VA

Notes

[1] Values provided are for the "S" option non-monitored power only.

Note:

- See user manual UM-5056 other power supplies.
- 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 the ADB SAFEGATE Product Center at www.adbsafegate.com.