

K100-140-001

ARC PROTECTION ELECTRONIC BALLAST



RELIABILITY, SAFETY AND ECONOMICS

The K100-140-001 Electronic Ballast combines the latest circuit technology and components with the safest and most advanced arcing protection available for aircraft fluorescent lighting. The arcing circuitry on this ballast not only detects arcing and shuts down the ballast, but also controls the arcing energy during the detection phase so that the arc will not support combustion and will never create a runaway condition. Previous technology can cause the power output to increase during arcing which can support combustion and cause the ballast to overheat, creating a very dangerous runaway situation. The arcing circuit also minimizes the inconvenience and costs caused by nuisance trips from operational shock or transient vibrations. The unit monitors these shocks and interruptions, maintains output power at a safe level, and will shut down only when a dangerous arcing condition is present.

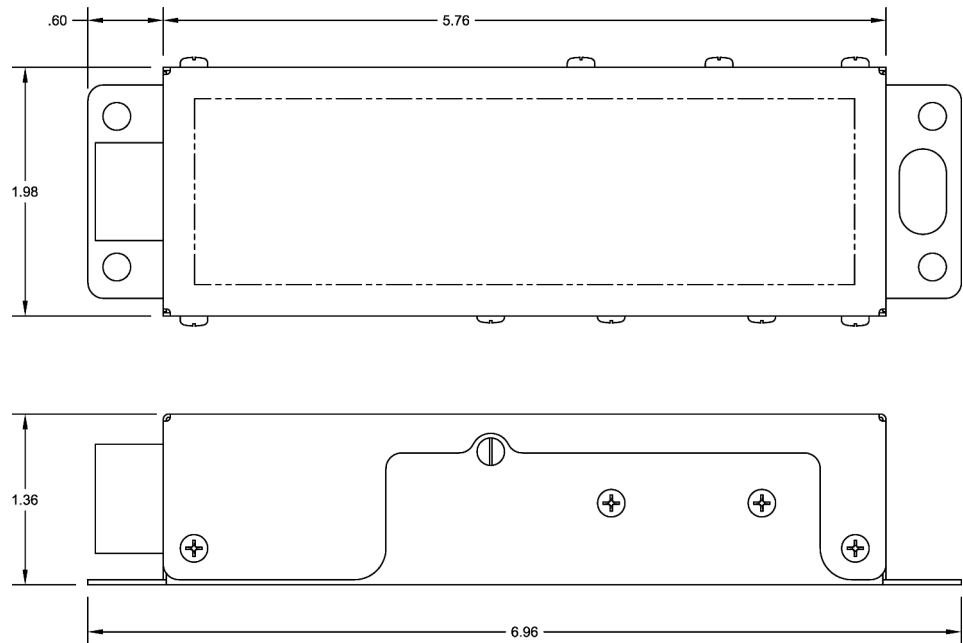
THE K100-140-001 DIFFERENCE

- Designed as a drop-in replacement for the Avtech 8184-1 ballast.
- Features highly reliable state-of-the-art electronics.
- Provides safer operation with the most advanced arcing protection circuit available.
- Comes as a single PCB with a lower parts count.
- Lighter-weight unit with lower operating temperature and power consumption.
- Offers higher efficiency and reliability.
- Minimizes the inconvenience and costs of false trips.
- Greatly reduces the cost of ownership of an aircraft lighting system.



DAY-RAY P/N

K100-140-001

REPLACES8184-1 (Avtech)
S283U008-16 (Boeing)**APPLICATION**737-300 to 737-900 Series
747-400 Series
757-200, 757-300 Series
767-200 to 767-400 ER Series
777-200**SPECIFICATIONS****Temperature Range**-15°C to +70°C operational
-55°C to +85°C short term storage**Altitude**-1,000 ft to 15,000ft operational
46,000 ft decompression**Humidity**RTCA/DO-160D Section 6 Category B
(Severe Environment)**Shocks and Crash Safety**

RTCA/DO-160D Section 7 Category B

VibrationRTCA/DO-160D Section 8 Type 2 Zone 1
Category H**EMI (RF Susceptibility)**

RTCA/DO-160D Section 20 Category R

EMI (RF Emission)

RTCA/DO-160D Section 21 Category M

Input Voltage

115V 400Hz

Input Current

845mA max

Dimming Ratio

22% step dimming

Lamp Types

Single or Dual T8 Lamp(s), 9W to 80W

Weight

0.64lbs max

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