

LED-lighting system B737NG: Upgrading your cabin interior at low cost

Introduction

The aircraft cabin is one of the first things your passengers see, creating an important brand impression of the service ahead. A modern, clean and bright interior stimulates a feeling of well being and adds to the overall comfort and satisfaction of your customers. Fokker Services offers several modifications to enhance the quality of the passenger experience. One of these modifications is an innovative LED-lighting system. Designed specifically for Boeing 737NG aircraft and compliant to all regulations, Fokker Services offers a complete LED-lighting package that replaces other, more traditional, tube luminescent (TL) passenger cabin lighting systems.

Your needs

The availability of LED-lighting techniques provides innovative new solutions for maximizing the performance of your passenger cabin lighting system. Frequent replacement of failed or discolored lighting elements, or broken mounting units, inevitably lead to high maintenance costs. The LED-lighting system is a reliable, high performance system that will make costly problems a thing of the past. Installation of the LED-lighting system is simple, as it uses the same 115VAC power connection as your current TL-lighting system, it is also connected to the existing cabin control panel requiring no alterations to its functions or layout. Your cabin crew won't need any training to operate the new LED-lighting system either. Why? Because it operates identically to the traditional TL-system.

Your benefits

The numerous benefits of the LED-lighting system compared to the traditional TL-lighting system are listed below:

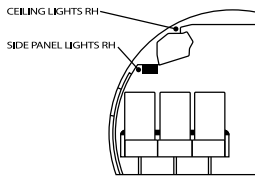
- Enhanced passenger appeal at a low cost. Bright, uniform output of light throughout the passenger cabin.
- No discoloration. The LED-lighting elements provide a consistent output of light in the cabin throughout its operating lifespan.
- Several color temperatures are available to suit the design of your cabin interior (e.g. warm white, universal white, cool white).
- Fade-in/out light dimming function available. Giving you the choice of dim, bright and everything in between.

(More benefits see other page)



More benefits

- High system reliability for 50,000 operating hours. At least 10 to 15 times longer than currently marketed TL-lighting systems.
- Fewer system components. The LED-lighting system consists of integral lighting elements with lengths up to 48 inches. No additional ballast or power supplies.
- Weighs less than alternative systems. Weight reductions of up to 20 kg per aircraft are possible.
- A minimum 30% reduction in your electrical power consumption. Resulting in less fuel burn, lower CO₂ emissions and reduced heat generation.
- Reduced maintenance and replacement costs.



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Product description

The new LED-lighting system consists of four rows of LED-lighting elements. Two rows, one right and one left, in the ceiling cove, whilst the other two can be found right and left in the side panels of the passenger cabin. For the ceiling lights a one on one LED replacement armature has been designed to enable quick replacement!

The aircraft modification package will be available soon via a Fokker Services, EASA approved engineering bulletin. It will include the installation procedure and a modification kit. This modification service is available for all aircraft types such as the B737, CRJ and other commercial E-jets, etc.

Approvals:	EASA approved under DOA 21J.059
Environmental Approvals:	RTCA DO160E environmental conditions and test procedures for airborne equipment
Flammability:	Conforms FAR/CS 25.853(a) & 25.869(a)(4) Appendix F, part 1
Operation:	Operationally identical to the current TL-lighting system
Installation:	Clip mounted integral LED-lighting elements
System reliability:	MTBF 50,000 operating hours
Cleaning:	Cleaning with a soft, dry cloth recommended
Power:	115 VAC 400 Hz
Dimming:	Step fade-in/out dimming
Color temperature:	Options available: - Warm white (3.500K), Universal white (4.200K), Cool white (5.000K)
Layout & Dimensions:	Strip mounted LED's in aluminium housing, translucent lens and clip mounts; height 19.8 mm, width 22.9 mm, length 406.4 mm (16 inch) to 1219.2 mm (48 inch)

Fokker Services for economic sense

LED lighting is a cost saving solution specially developed by Fokker Services, the service and maintenance department of the larger Fokker Technologies. With 3,600 employees and annual turnover of 553 million, Fokker Technologies successfully delivers systems, components and services to airlines all over the world, specializing in a wide range of technologies and production processes. Fokker Services (FS) is an independent Aerospace Service provider, supporting a wide range of regional, commercial and military aircraft. FS services range from Type Certificate Holder-related product services to Component Availability Programs and Aircraft Completions & Conversions. The unique combination of knowledge and impeccable after-sales support makes Fokker Services a valuable partner in the aerospace industry. Fokker Services employs 1000 people (800 in the Netherlands), generating a turnover of about 230 million euros.

Contact

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