

LED in-seat reading light systems

Localized in-seat reading system for aircraft and other areas where discreet lighting is required

- High-tech marketability
- Integral to seat - follows seat movement
- Localized lighting with a well-defined beam shape
- Directionally adjustable by the user
- Dimmable by the user (optional)
- Less intrusive to neighbouring passengers



The light output end of the in-seat light consists of a short flexible tubing which is firmly clamped to the seat back frame. The tube is terminated in the light output head which can be bent into the required direction. The light head features either an on/off switch or a switched dimmer for various pre-determined light intensity from off to fully on. Alternatively, the on/off switch or dimmer switch may be located on a separate user control panel.

At the clamped end of the flexible tube exits two supply wires. The LED lighting array may be driven from an in-seat PSU, such as a laptop charger. The light sources require typically 1.5W of power per unit.

Systems are designed to meet appropriate transport quality specifications such as RTCA DO-160 for aircraft.

ORDERING INFORMATION

Standard and made-to-order systems are available, please contact Schott for further details.



Typical light heads

Safe light

- low voltage, 12 - 17 volt d.c. input with internal regulation, other supply values can be arranged
- low heat emission means lamp head does not get hot

Low cost of ownership

- tamper proof
- damage resistant
- maintenance restricted to lamp head
- extremely long MTBF
- low power consumption of typically 1.5W per seat means very low running costs

Flexible

- design freedom improved over conventional lighting
- operates from in-seat PSU (e.g. laptop charger)
- reduced weight compared to fiber optic systems
- single, dual or multi seat versions
- dimmable and switchable configuration options

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Typical system specification

Power requirement per seat	W	~ 1.5
Color temperature	K	700
Input voltage	V DC	12 - 17
Illuminance value at 0.4 m distance from light head	lux	80 -160
Illuminance spot diameter	mm (in)	400 (15.7)
System lifetime*	h	20,000 - 40,000
Weight, whole system	kg (lbs)	~ 300 (0.7) per seat

* time to 50% light output, duration is dependent on operating conditions



Other lighting systems

LED in-seat reading light systems are just some of the many lighting solutions designed, developed and manufactured by Schott Fibre Optics. Other lighting systems for transport include: seat well lighting, high and low level aisle lighting, and individual seat back tray lighting. In addition, reading and decorative lighting systems for trains and ferries are also available.



Should you require further information please contact your local Schott distributor.

SCHOTT-FOSTEC, LLC

62 Columbus Street
Auburn
NY 13021
USA
Tel: +1 315/255-2791
Fax: +1 315/255-2695
E-mail: schott.fostec@us.schott.com
www.us.schott.com/fiberoptics

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