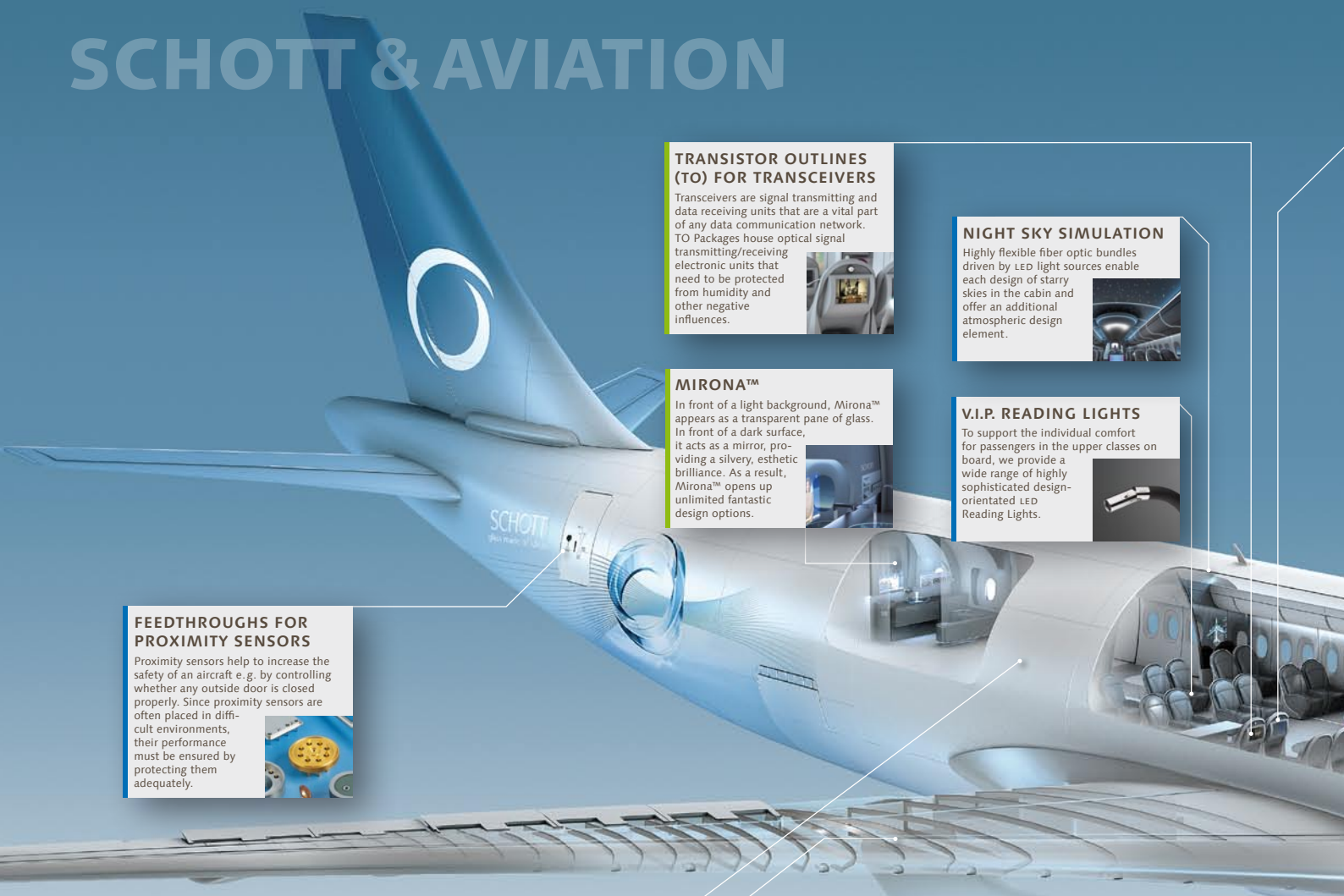


# SCHOTT & AVIATION



## TRANSISTOR OUTLINES (TO) FOR TRANSCIVERS

Transceivers are signal transmitting and data receiving units that are a vital part of any data communication network. TO Packages house optical signal transmitting/receiving electronic units that need to be protected from humidity and other negative influences.



## NIGHT SKY SIMULATION

Highly flexible fiber optic bundles driven by LED light sources enable each design of starry skies in the cabin and offer an additional atmospheric design element.



## MIRONA™

In front of a light background, Mirona™ appears as a transparent pane of glass. In front of a dark surface, it acts as a mirror, providing a silvery, esthetic brilliance. As a result, Mirona™ opens up unlimited fantastic design options.



## V.I.P. READING LIGHTS

To support the individual comfort for passengers in the upper classes on board, we provide a wide range of highly sophisticated design-orientated LED Reading Lights.



## FEEDTHROUGHS FOR PROXIMITY SENSORS

Proximity sensors help to increase the safety of an aircraft e.g. by controlling whether any outside door is closed properly. Since proximity sensors are often placed in difficult environments, their performance must be ensured by protecting them adequately.



## DATAKOM

For weight reduction and increasing security reasons, multicore optical data cables have already been developed for on-board databus solutions.



## FEEDTHROUGHS FOR FUEL TANK SENSORS

Fuel tank sensors measure the fuel levels directly within the tank. Sensor systems within fuel tanks are exposed to kerosene as well, as temperature fluctuations, and thus need to be protected hermetically.



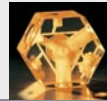
## FEEDTHROUGHS FOR RELAYS

A relay is an electrical switch that opens and closes under the control of another electrical circuit. In harsh environments, it is absolutely vital that relays are hermetically sealed.



## INERTIAL REFERENCES

Cyroscope position measurement: Gyroscopes made of Zerodur®, the zero expansion glass ceramic from SCHOTT, are the elements of the inertial reference for precise position measurement in any aircraft.



## HERMETIC FEEDTHROUGHS FOR PROXIMITY SENSORS

Proximity sensors help to increase the safety of an aircraft by controlling whether the landing gear is retracted completely. Since proximity sensors are often placed in difficult environments, their performance must be ensured by protecting them adequately.



TODAY'S APPLICATION

FUTURE APPLICATION

## IN-SEAT READING LIGHTS

The combination of LED and side emitting fibers enable cabin designers to use the floor path marking system as an additional design object, rather than a purely functional emergency system.



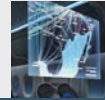
## UPWASHLIGHTS

Moodlighting will be created through the latest generation of LED technology with the capability of endless length and highest homogeneity and intensity.



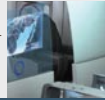
## HOLOPRO™

The patented HoloPro™ technology makes it possible to project images or movies onto anti-reflective glass during both daylight or night-time, otherwise the material is transparent.



## LC SMARTGLASS™

Simply turning on the power switch changes the LC SmartGlass™ from translucent white into a visually transparent display and offers creative design options, as well as private spheres on demand.



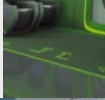
## CONTOUR LIGHTS

Side emitting fiber optics are used to create a unique, linear, homogeneous illumination with flammability proven material. RGB LED light sources enable the application to create light scenarios within the cabin.



## EMERGENCY LIGHTS

The combination of LED and side emitting fibers enable cabin designers to use the floor path marking system as an additional design object, rather than a purely functional emergency system.



## DAYLIGHT SIMULATION

Ultra-flat panels driven by LEDs or backlit opaque surfaces in the ceiling simulate daylight atmosphere in the cabin. Ultra-flat panels and Opalika® surfaces provide diffuse lighting and simulate daylight atmosphere in the cabin.



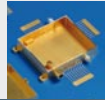
## LIGHTPOINTS™

LightPoints™ offer the unique ability to allow LEDs to float and glow inside glass and the power supply elements are invisible. By triggering the single LEDs, an informative aspect can be added to the application.



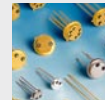
## RADAR PACKAGES

Electronic radar devices are part of the radar units of anti-collision systems which help to increase over-all safety mechanisms for aircrafts. Vacuum-tight packages protect the radar devices from humidity and other disrupting conditions.



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## SPECIAL HEAD UP DISPLAYS

Semi-reflecting instrument glass produced and assembled by SCHOTT enables the projection of the instrument data onto the cockpit window. Supporting the look of surroundings and all flight data at the same time, SHUD is a key element to touch down under difficult weather conditions.



## GLASS BASINS

Glass wash basins for elegant sanitary facilities. Different shapes and colors are possible according to customer specifications. For safety reasons, all basins are, of course, thermally tempered.



## GALLEY APPLICATIONS

Glass ceramic cooktop and fiber optic lighting components that fulfill special thermal requirements allow for various applications from cooling to cooking in challenging environments.



## HERMETIC CONNECTORS FOR HYDRAULIC PUMPS

Hydraulic pumps are needed to operate an aircraft's landing gear. Hermetic connectors can be used to feed through electricity into the hydraulic pumps system.



## DC/DC CONVERTER PACKAGES

DC/DC converters convert aircraft voltage that is generated in the engines to any required voltages of the final electronic devices, e.g. cockpit instruments. Hermetic packages for DC/DC converters protect the electronic device from harsh environments.



## TECHNICAL GLASS, FILTERS AND COMPONENTS

Coated technical glass and filters from SCHOTT used as contrast enhancement filters, night vision filters, anti demist-covers guarantee a perfect view and protection of instruments, enabling precise vision under challenging circumstances. With tactile screens made of SCHOTT technical glass, functionality and design are being combined in the cockpit using a specific glass substrate with a conductive ITO coating.



## COMPONENTS FOR COMFORT AND SAFETY

Every passenger flying inside an Airbus or Boeing comes into contact with products from SCHOTT, either directly or indirectly: innovative lighting solutions offer attractive design and pleasant light conditions, optoelectronic components and glass-to-metal connections higher safety. <|

## KOMPONENTEN FÜR KOMFORT UND SICHERHEIT

Jeder Fluggast eines Airbus oder einer Boeing kommt direkt oder indirekt mit SCHOTT Produkten in Kontakt: Innovative Lichtlösungen sorgen für attraktives Design und angenehme Lichtverhältnisse, optoelektronische Komponenten und Glas-Metall-Verbindungen für ein Plus an Sicherheit. <|