

Frequently Asked Questions

DEXAL™ Technology – An intra-luminaire, bi-directional interface

What is OSRAM DEXAL?

OSRAM DEXAL (Data Exchange for Advanced Lighting) is a non-proprietary, intra-luminaire interface that enables bi-directional communications between the driver and the fixture-integrated component.

Where is DEXAL Technology Used?

DEXAL is incorporated in OSRAM OPTOTRONIC® programmable drivers (listed below). It is also incorporated within fixture-integrated components of light management systems (LMS) such as sensors and the OSRAM Connected Lighting Module (CLM).

Does a smart fixture require both an OSRAM OPTOTRONIC driver with DEXAL and an OSRAM CLM with DEXAL?

Not always. The OPTOTRONIC driver with DEXAL is required. A fixture-integrated LMS component with DEXAL is also required. In some cases, such as OSRAM ENCELIUM, the fixture-integrated component specified will be the OSRAM CLM with DEXAL. Other manufacturer's LMS incorporate DEXAL technology within their fixture-integrated sensors and will specify those components instead of the CLM.

What can OPTOTRONIC Drivers with DEXAL do for your business?

Streamline your configuration and production process

Fixture manufacturers are required to go back to the drawing board with every new project to configure luminaire drivers and interface capabilities prior to production. This activity can be expensive and impact time to market.

DEXAL is a tested, compatible solution for multiple manufacturers' of light management systems. Used as a standard bi-directional communication interface, DEXAL can help simplify a fixture manufacturer's in line product testing process.

Enable Your Luminaires to Become Part of the Smart Lighting Revolution

DEXAL technology can help fixture manufacturers actively participate in the smart lighting revolution without adding complexity to their business. In fact, leveraging DEXAL can mean streamlining your design and manufacturing process.

Manufacturers that adopt OPTOTRONIC drivers with DEXAL are able to support multiple projects requiring bi-directional communications using one driver. It's that simple. One driver for multiple projects, even if each project specifies a different light management system.*

*DEXAL is proven compatible with Curren by GE, Enlighted, Inc., Magnum Energy Solutions and OSRAM ENCELIUM.