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Installing Lumiance professional lighting products just got even easier. Havells-Sylvania introduces Isotera, the revolutionary contactless power system for LED lighting, for faster, simpler, safer lighting schemes that you change again and again that saves money into the bargain.

Isotera controls luminaires over a 'bus' system without connectors and drivers. It's contactless which means no hardwiring, no need to cut or pierce cable and no need for tools. You just clip a coupler anywhere you want on the orange bus cable. It literally takes seconds – a fraction of the time compared with conventional wiring. With coolrunning remote power, a single run of high-frequency cable and no polarity to worry about, planning, installation and checking are all easier. You might think all this flexibility would come at a premium but, in fact, you use fewer components, so you can save time, money and materials.

Faster installation

- Installation without tools
- No bus polarity connect without errors
- Contactless coupler connection does not cut cable or pierce insulation
- Easy verification of the installation fewer potential points for wiring errors to creep in (e.g. Drivers or junction points)
- Fastest way of daisy-chaining luminaires
- Remote power supply
- Single uninterrupted cable
- Does not require computer-based commissioning Flexible

Flexible

- Can adapt with changes to the building by plug and play
- Position and reposition your LED luminaires at any point on the cable
- Any combination of LED luminaires can be clipped to orange twisted bus
- Orange twisted cable is easily extended
- Power and control can be planned separately: control groups can overlap multiple power hubs

Safe

- Power bus wiring is high frequency 50kHz instead of 50Hz
- No exposed wiring
- No need for hard wiring
- Low voltage

Competitive

- Reduced installation time
- Simple to install / minimum skills required
- Easier project planning due to simplicity and flexibility of system
- Lower overall material costs fewer components in the system compared with standard or modular wiring

Reliable

- Eliminate multiple points of failure by removing drivers, and replace with a robust power hub
- Couplers are more efficient than LED drivers: less heat and longer life
- Couplers do not contain large electrolytic capacitors, eliminating the driver's "Achilles heel", and giving longer life







Simple 6 step installation process.

You can also view our comprehensive installation video scanning the QR code or visiting: www.havells-sylvania.com/en_GB/downloads/videos

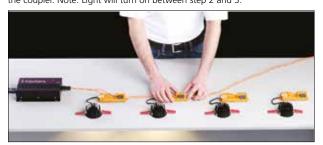
Easy Installation 1



Connect the orange iBus cable to the power hub and press the reset button.



Push the slider forward and insert the cable securely into the back part of the coupler. Note: Light will turn on between step 2 and 3.



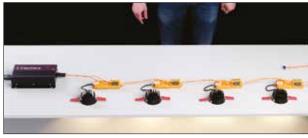
Repeat steps 2 to 4 for each luminaire that you are coupling to the cable.



Connect the couplers to the cable. Push the slider backwards and securely insert the cable in the front part the coupler.

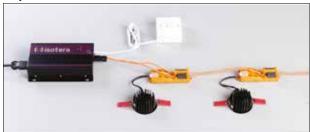


Return the slider to its original position. It should now cover both parts of the cable fully and securely.



Enjoy your completed lighting installation.

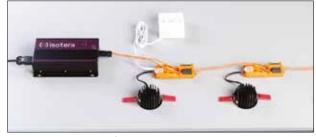
Easy Installation 2



Master command – run from the power hub

Simply link the light switch, connected to a Switch-Interface Module, via its RJ11 cable to the power hub. Turn on and off with the switch.





Master command – Run from a single coupler

Simply link the light switch, fitted with a Switch-Interface Module, via its RJ11 cable to a coupler. Turn on and off by pressing the switch briefly. Dim up and down by holding down the switch.

Master command - Connect to all couplers in a group

Simply link the light switch via its RJ11 cable to a coupler. Then extend a linking RJ11 to the next coupler using a 2-way adapter. Repeat as many times as needed. Turn on and off by pressing the switch briefly. Dim up and down by holding down the switch.

Cost and time savings with Isotera



Lumiance and Isotera together offer savings in time and money. With conventional lighting solutions, moving or adjusting LED luminaires can take both. But Isotera's modular design and fast, simple method of fixing or changing components means fewer mistakes and less waste. The secret is contactless power, which speeds up installation and enables you to make changes at no extra cost. For example, in no time at all you can add in an energy saving sensor for presence/absence or daylight detection with no extra wiring.

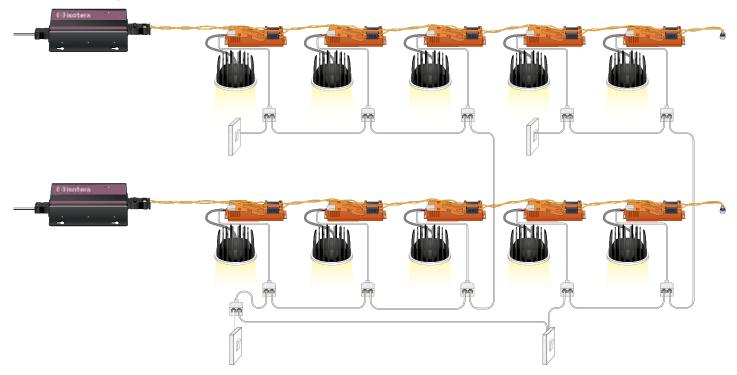
Isotera connected in series



Just compare the time it takes to cut, strip, twist, insert, screw and secure the wires for a fitting in the conventional way with simply snapping in a new luminaire. A downlight can usually take up to 10 minutes wire up but with Isotera it's all done in seconds. That doesn't just save labour: because you use less cable and fewer connectors (you don't even need T-connectors), you soon start to make savings on materials too.

Lumiance's high reputation for contemporary design, functionality and safety already make it the contractor's first choice. Now, Isotera offers even greater flexibility and savings to make specifying easier than ever.

Isotera connected in parallel



How to specify Isotera

Chose your LED luminaire!

If LED luminaire with Isotera are not listed, contact Havells-Sylvania, and we can supply a LED luminaire with the right size of coupler

Add up the total Wattage of all luminaires, and allow 4W/100m for cable

If this total is <200W or <500W then use a power hub to match.

If it's >500W then split the LED luminaire between multiple power hubs, each supplying their own orange bus

Measure the total length of orange bus cable required

Do any luminaires need emergency battery power?

If so add an emergency module for each

Do you need controls?

Add sensors, switch-interface modules, cables to join them and multi-way connectors

Isotera product range









Coupler



iBus



Emergency 3 hour module



Sensor



RJ-11 cables and connector



Switch interface

The key elements of an Isotera installation is a LED luminaire connected to a coupler, rather than a driver. The coupler clips on to an orange cable and power is provided centrally by the power hub. Additionally, control is a simple 'plug and play' add-on using control cables.

Power hub

An ultra-efficient bulk power converter which converts 230V AC mains into a low voltage high frequency AC (HFAC) which is then fed to the orange twisted pair bus..

Coupler

For delivering constant-current power to the LED luminaires. 15W, 30W and 50W versions available with a range of output currents.

iBus

A double-insulated twisted pair cable, connected at one end to the power hub and the other end shorted by an Insulation Displacement Connector (IDC) allowing the connection of mutiple LED luminaires of various drive currents. The orange cable is double-insulated, LSOH, and supplied pre-fitted with the connector for rapid connection to the power hub.

Emergency 3 hour module

Battery back-up, charging and selftest according to EN 62034.

Sensor

For occupancy / absence and daylight-linked dimming.

RJ-11 cables and connector

Quick and simple connection of controls to couplers.

Switch interface

Connect a retractive switch for on / off / dimming control. Multiple switchinterface modules may be connected for twoway switching.

Note: available as "master" and "slave" versions.



Lumiance and Isotera product range



Any constant current LED products can be powered by Isotera, for example, Concord or Sylvania Luminaires. Please visit www.havells-sylvania.com to see our complete range of products.



Lumiance LED downlights, supplied fitted with isotera couplers ready



Insaver LED

Control Gear: Electronic

Dimmable: Analogue 1-10V or DALI dimmable

Emergency: Remote 3 hour

maintained **Reflector:** Scratch proof facetted

reflector

Housing: Choice of white or silver

bezel

• Low recess depth (115mm)

- LED technology
- Quick and easy to install
- Extensive choice of accessories
- Optimised photometric performance
- Ideal for applications such as lobbies, residential areas, hallways, open-space offices, meetings rooms and any location that requires long service hours and high switching cycles



Insaver HO Topper LED / Syl-Lighter LED

Control Gear: Electronic White

- 12W to 25W LED downlights
- Low recess depth (<90mm)
- Quick and easy to install
- Ideal for applications such as general public circulation areas, corridors and public toilets



Instar LED

Control Gear: Electronic
Housing: Choice of white, chrome
or brushed iron

- Easy to install: Plug and play connecting system with strain relief
- Ideal for application such as Offices, Hospitality and high-end Residential



Motto Trend LED

Control Gear: Electronic
Adjustment Tiltable in 2 directions,
Angles: 2 x 25° tilt
Housing: Choice of matt white or
brushed aluminium

• Single 7W LED, results in a small footprint to aid installation

- 'Plug & Play' connection system
- Choice of 2 beam angles: 25° or 36°
- Ideal for Retail, Hospitality and high-end Residential lighting



Signo 155 LED & 205 LED

Control Gear: Electronic

Reflector:

Finish:

Adjustment 60° tilt and 355° rotation **Angles:**

New optimised reflector for high LOR

silver and black

Housing: Choice of matt white or

brushed aluminium Powder coated white,

Recessed and adjustable

- Unique friction system, for optimal adjustment
- Ideal for Retail, Showrooms applications, perfect for fashion and food stores







Power hub

Coupler





Cable

MultiSensor





Emergency 3 hour module

Switch interface





RJ-11

Control signal splitter connector

Power hub

| Code | Description | Watt (W) |
|---------|------------------------|----------|
| 3099171 | Isotera 200W Power hub | 200 |
| 3099172 | Isotera 500W Power hub | 500 |

Coupler

| Code | Description | Watt (W) | Output Current (mA) |
|---------|------------------------------------|-------------|---------------------------|
| 3099153 | Isotera Coupler IS-H-IC-15-1050-01 | Upto 15W | 1,050 |
| 3099154 | Isotera Coupler IS-H-IC-15-200-01 | Upto 15W | 200 |
| 3099155 | Isotera Coupler IS-H-IC-15-350-01 | Upto 15W | 350 |
| 3099156 | Isotera Coupler IS-H-IC-15-700-01 | Upto 15W | 700 |
| 3099157 | Isotera Coupler IS-H-IC-30-1050-01 | 15W to 30W | 1,050 |
| 3099158 | Isotera Coupler IS-H-IC-30-350-01 | 15W to 30W | 350 |
| 3099159 | Isotera Coupler IS-H-IC-30-500-01 | 15W to 30W | 500 |
| 3099160 | Isotera Coupler IS-H-IC-30-700-01 | 15W to 30W | 700 |
| 3099161 | Isotera Coupler IS-H-IC-50-1000-01 | 25W to 50W | 1,000 |
| 3099162 | Isotera Coupler IS-H-IC-50-1200-01 | 25W to 50W | 1,200 |
| 3099163 | Isotera Coupler IS-H-IC-50-700-01 | 25W to 50W | 700 |
| 3099164 | Isotera Coupler IS-H-IC-50-800-01 | 25W to 50W | 800 |
| 3099165 | Isotera Coupler IS-H-IC-50-900-01 | 25W to 50W | 900 |

Cable

| Code | Description |
|---------|-------------------|
| 3099173 | Isotera Cable 10m |
| 3099174 | Isotera Cable 20m |
| 3099175 | Isotera Cable 50m |

MultiSensor

| Code | Description |
|---------|---------------------|
| 3099176 | Isotera MultiSensor |

Emergency 3 hour module

| Code | Description | Watt (W) |
|---------|---------------------------------|-----------------------|
| 3099177 | Isotera Emergency 3 hour module | 2W/2.5W/3W selectable |

Switch interface

| Code | Description |
|---------|---|
| 3099178 | Isotera Switch Interface Module Master (Blue) |
| 3099179 | Isotera Switch Interface Module Slave (Red) |

RJ-11

| Code | Description |
|---------|-----------------------|
| 3099182 | Isotera RJ-11 lead 3m |
| 3099183 | Isotera RJ-11 lead 5m |

Control signal splitter connector

| Code | Description |
|---------|--|
| 3099180 | Isotera control signal splitter connector 2W |
| 3099181 | Isotera control signal splitter connector 3W |
| 3099184 | Isotera socket to socket signal connector |