

# Lighting connection and control products

Why should you use us?



 **MADE IN  
BRITAIN**®

**Who we are.** We started life as Flex Connectors Ltd in 1998, but by 2018 our product range, The flex7 System was so well known in the marketplace that we took the decision to rebrand as flex7 Ltd. We're now one of the UK's primary manufacturers of lighting connection & control products designed specifically for the commercial building sector. We have a reputation for high quality, user-friendly products, and excellent customer service and can proudly boast the most comprehensive portfolio of standard products amongst our UK based contemporaries.

We've gained a wealth of knowledge in the last 20+ years, supplying millions of products for thousands of installations including schools, universities, hospitals, offices, airports, hotels, retail, and other commercial properties.



### What we do... differently

We are the only UK based lighting connection and control company who design and manufacture their entire product range. We believe vehemently that products originating from the same in-house design team, rather than disparate suppliers around the globe, result in a system whose components fit perfectly with each other to provide the best user experience possible.

### Innovators

When it comes to world firsts it's fair to say we've had our share. The flex7 System was the first 7 pole lighting connection system on the market. It was 10 years before any of our competitors followed suit. This was followed by the introduction of the smallest sensor head of its type when we added lighting controls to our range in 2003. The latest addition to our product range is Prota plug-in ceiling rose; the world's first (and only) 7-pole 'decorative' ceiling rose.

We like to keep on top of what's going on in the industry and recognising the potential danger to life of using PVC or LSF cable in public buildings, we default to low smoke halogen free (LSHF) as standard. For many years we've promoted the benefits of installing LSHF cable in buildings that could potentially have a high density of human footfall, so you won't be surprised that we've been strong advocates of the CPR's mandatory rules in respect of a cable's reaction to fire since its introduction to the UK in July 2017.

### Made in Britain

Manufacturing in Britain is not "the cheap option", but the benefits of communicating with our partners over relatively short distances rather than different time zones, the financial boost going directly into the UK's economy, the safeguarding of British manufacturing and jobs, the certainty of knowing people are working in safe environments and being treated well, not to mention the positive effect on our carbon footprint, far outweigh the perceived financial benefits as far as we're concerned.



For all these reasons, flex7 Limited is immensely proud of being a member of the Made in Britain Campaign.



**The system at a glance.** Our lighting connection and control system is based around a simple premise; everything plugs together on site. Once the initial termination is made it's just a case of plugging the rest of the products in. This makes for an incredibly quick and easy way to install a lighting system with minimal disruption on site. Of course, the fact that everything is connected via plug-in connection means that changing a layout or adding extra products couldn't be easier.

## Lighting Connection

Our lighting connection system was the first 7-pole system to market, and is now the most comprehensive lighting connection system available. Our Single Socket outlets, Prota plug-in ceiling roses, luminaire leads, and lighting distribution boxes are all available with 7-poles. In fact our lighting distribution boxes come 7-pole as standard meaning that you can use them for either on/

off or dimming control. This can be particularly useful if you want to upgrade a lighting system further down the line.

The core philosophy of our connection system is modularity. Everything plugs together offering not just incredibly quick installation, but also the possibility to reconfigure the system as and when required.

Want to add extra luminaires to a circuit? Move luminaires from one circuit to another? Upgrade to dimming controls? It can all be done by unplugging/plugging-in a few products.



## Features

- **Aesthetics** – Smallest sensor head of its type (40mmØ). Prota plug-in ceiling rose is ideal for projects where products need to be surface-mounted. Both sensor heads and Prota plug in Ceiling Roses are available in black or white to match surroundings.
- **Rugged/Robust** – Our products are designed to withstand the rigours of a construction site. Externally, its tough anodised aluminium body makes our lighting distribution box one of the most robust on the market. Internally, our unique patented contact system makes it the most electrically robust on the market.
- **User-friendly** – Our products are designed for ease of use: Large wiring compartments, easily accessible and clearly labelled terminals, multiple fixing options, commissioning can be carried out by installer, and of course plug-together connection. Every aspect of their design is carefully considered to enhance user experience and ensure that your installation goes as smoothly as possible.
- **Reconfigurable** – The plug-together nature of the flex7 System makes it easy to add extra luminaires, upgrade to dimming control, reconfigure areas with minimal disruption.
- **Modular** – plug-together system. Once initial termination is made it's a simple case of plugging luminaire leads and Lighting controls into Lighting Distribution Boxes, and all your electrical connections are complete. It's an incredibly quick and easy method of installation and compared to traditional hard-wiring can save up to 80% installation time on a project.
- **Easy maintenance** – Products can easily be serviced, and lighting layout can easily be reconfigured. Upgrade from on/off to dimming without having to change distribution boxes. Isolate individual luminaires and controls by simply unplugging.

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### You can easily:

- Add more luminaires to an existing circuit.
- Borrow power from an existing circuit, to create a new separately controlled group of lights.
- Control 2 groups of luminaires independently of each other, from the same distribution box.
- Independently control 2 groups of luminaires each supplied by their own protective device at the distribution board (essential / non-essential circuits for example).

Although our connection system is modular by design we understand that not all installations are the same and as such have different requirements – what works well for one application might not be so great in another. That's why we've made the components that comprise to make up the flex7 System capable of being installed in a fully modular, semi-modular or entirely stand-alone fashion.



## Lighting Controls

Up to 60% of the energy used by lighting can be saved if manual switching is replaced by automatic lighting control. Our hassle-free system can help you to achieve this with minimal disruption, and without the need for expensive commissioning. In keeping with all our products our lighting controls range simply plugs into our lighting connection products to create a fully automated system.

We offer on/off, daylight linking/dimming, integrated emergency test, corridor hold, last man out switch, networking across circuits/phases and plug-in switches which

all operate at protected extra low voltage (PELV). This not only means that the install is intrinsically safer, with controls and associated cabling reduced to just 5V or 12V, but also allows for multiple circuits, or even multiple phases, to be switched at these extra low voltages too; no need for additional contactors or the potential of 415V at certain devices – multi-gang switches for example.

At a mere 40mm dia. (32mmØ cutout) our standard flush mounted PIR sensor head is the smallest of its type. In addition we offer Tamper-Resistant and IP66 variants if needed, finished in white or black.

Our microwave sensor is available wall-mounted or ceiling-mounted and there's a hard-wired, stand-alone 230V option for retrofit applications.

To complete your installation use a flex7 switch. Unlike traditional hard-wired switches, our switches are unique, incorporating RJ connectivity, meaning termination takes a second and requires no screwdrivers or strippers. Snapping into a Euromod 50 x 50 plate means flex7 switches and scene set plates can always match the rest of the specified electrical accessories on an installation.

## Projects Service

For larger installations we offer a projects service which includes a detailed product schedule, built upon a room-by-room or area-by-area basis. The schedule lists every flex7 product required for each specific area. We will also supply our products packed to mirror the completed schedule eg. everything for 'Ground Floor, Office 1' is packed in a carton labelled 'Ground Floor, Office 1'. In addition, our Sales and Specification Engineers are happy to carry out any on-site training prior to installation, ensuring everyone involved is familiar with our products and how they go together. Finally, we're always there to offer advice and support should there be any questions before, during or after your flex7 project is delivered.

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The Pinnacle Milton Keynes



Aberdeen University Science Teaching Hub



Midland Metropolitan Hospital



Harrods Beauty Edinburgh



QBic Hotels



Hong Kong Airport

