Cucumber
Lighting Controls

Datasheet

Switch Interface Unit

MAINS POWERED

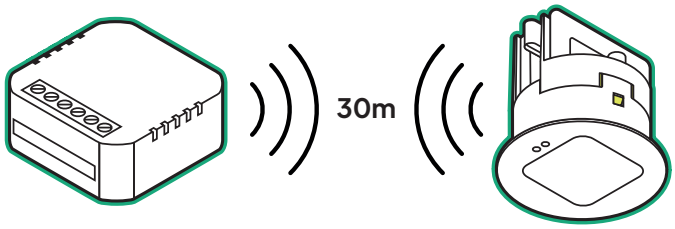
SW-IU-230V

Innovative lighting controls for industry professionals, by industry professionals.

The switch interface unit can be wirelessly connected to a sensor using our free Cucumber Lighting Controls app on either Android or iOS devices. Need to network devices together? Then not a problem, using the same app, users can set groups of detectors and switches to work together to provide tailor-made solutions.

- Saves on the wiring between devices, reducing installation time and associated costs
- Simple App options reducing time on-site for programming
- Individually configurable supporting switching, dimming and scene recall functions
- Flexibility of connecting different styles of switches
- Compact housing for a wide range of applications
- Suitable for new, refurbishment and listed building projects

Range between devices

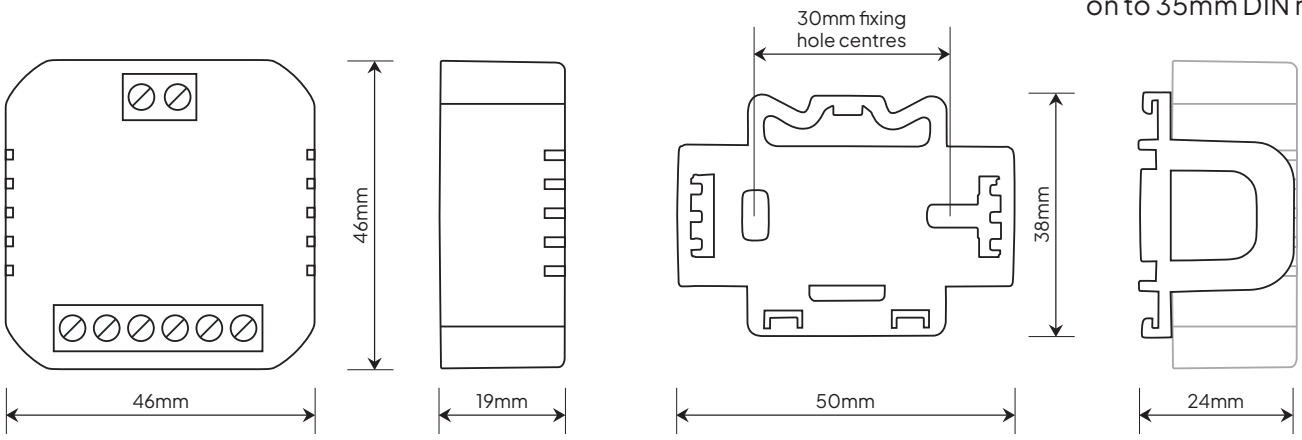


Up to 30m wireless network range between devices

Specifications	
Supply Voltage	100VAC to 230VAC
Supply Frequency	50/60Hz
Parasitic Power Consumption	96mW
Max Switch Cabling Length	50m
Circuit Protection	≤10A MCB Type C
Terminal Capacity	0.5mm² to 1.5mm²
Working Temperature	-10 to +35°C
Unit Weight	0.03kg
Material (Casing)	ABS Dev962 UL 94 VO
Compliance	2014/35/EU Low Voltage Directive 2014/30/EU Electromagnetic Compatibility Directive 2014/53/EU Radio Equipment Directive 2011/65/EU Restriction of Hazardous Substances (RoHS) Directive
BLE (Bluetooth) Transceiver	
Protocol	Bluetooth
Operation frequency	2.4 GHz
Transmission Power	10 dBm
Switch To Sensor Range	30m

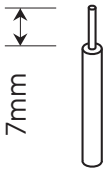
Dimensions

The bracket can be clipped on to 35mm DIN rail.



Wiring

Terminate cables into connections as per wiring diagrams below.



Typical stripping length for terminal connections.

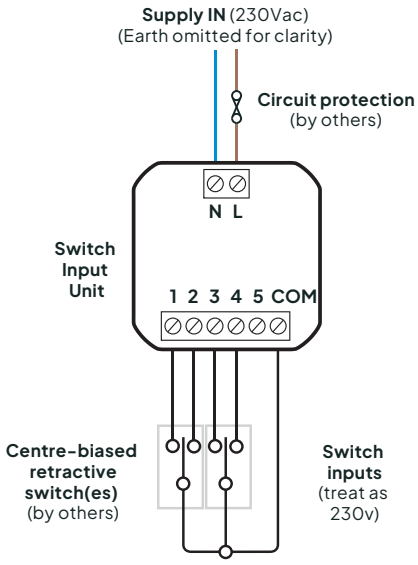


Fig.1 Using centre-biased retractive switch type mechanisms

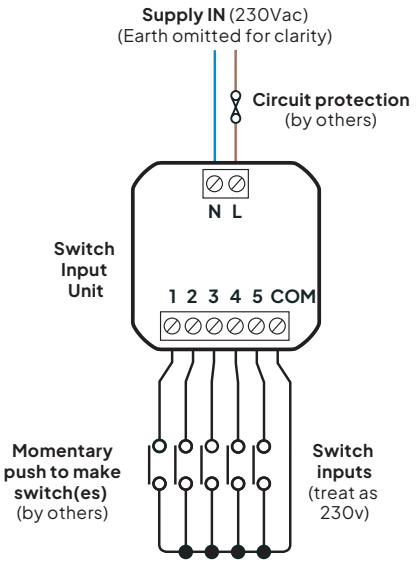


Fig.2 Using single push to make switch type mechanisms

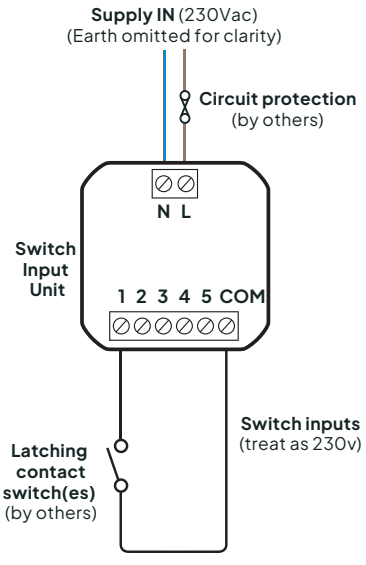


Fig.3 Using latching contact switch type mechanisms (can be used for override functions e.g. Fire Alarm Interface)

PLEASE NOTE: For standard manual switch operation in conjunction with our sensors, control nodes, and LCMs, we recommend using centre-biased retractive switches (see Fig. 1 above).

WARNING: This device should be installed by a qualified electrician in accordance with the latest edition of the UK Wiring regulations.

Installation precautions:

- This device has been designed to be installed either in the backbox behind the switch mechanism(s), or inside a suitable (non-metallic) enclosure.
- Flush-mounting Bluetooth Low Energy (BLE) devices inside metal enclosures is not recommended.
- BLE networking ('meshing') between devices: Although BLE range between devices can be up to 30m in direct line of sight, this distance can be affected by other external factors such as building fabric / materials and 3rd party technology. Therefore we would normally recommend BLE devices to be mounted a maximum of 10m to 20m apart (or closer if possible). If further distance between devices is required, please contact us.
- If possible, please check on quality of mesh network between devices before proceeding with project.
- Please contact us for further design considerations if you are planning to mesh more than 50 BLE sensors and/or devices into the same network.
- If you have any queries with regards to above points please contact us for further details.

Functionality and programming

The Switch Input Unit can be programmed using the Cucumber Lighting Controls app via Bluetooth on your smart device. Please use the QR code below to download our app on either iOS or Android to set up the product. Full funtionality of the product can be programmed using the 'Network setup' menu.

Further information for using the 'Network setup' can be found on our website.

Download our free Cucumber Lighting Controls app to set up the product

Product Code	Description
SW-IU-230V	Switch Interface Unit - Mains Powered

Cucumber Lighting Controls

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