



Privacy Glass is an electronically switchable glass solution that allows manageable privacy and vision through glazing whilst maintaining high levels of light transmission.

Sizes

Minimum size 200mm x 300mm per pane

Maximum size 1000mm x 3750mm per pane

Pane Thickness 8—33mm

Glass

2x6 TXD with a Liquid Crystal Film layered between two EVA interlayers

Available upon request Double Glazing, Triple Glazing, Low Iron Glass, Low Maintenance Coatings, Shaped Glass, curved Glass, Coloured Glass, Screen Printed glass

Framing

Glass can be installed as either an interior glass or as a façade IGU. It can be installed into any suitable framing including hinged and sliding doors or used as frameless structural glass panels

Typical performance

With the above glass spec

Light Transmission 77% (transparent) - 76% (translucent)

Light Reflection 19% (transparent) - 18% (translucent)

Haze (level of blur) 5.7% (transparent) - 90% (translucent)

Ug Value 5.6—5.8 W/m²K (design privacy glass pane as part of double/triple glazed unit for improved thermal performance)

Sound Insulation 38 (-2;-3) dB

Power Supply

Transformer may be installed up to 20m away from glass with either a wall switch or remote control

Operating voltage 100V (50Hz)

Power Usage 7W/m²k (transparent) / 0W/m²k (translucent)

Electrical Classification Class 1 to EN 60439

Larger Glass Sizes

Glass sizes of 1820mm x 3500mm available with

Sound Insulation 37 (-1,-2) dB

Operating Voltage 65 VAC (50Hz—60Hz)

Power Usage 5W/m²k (transparent), 0W/m²k (translucent). Different transformers required.

How does Privacy Glass work?



ON



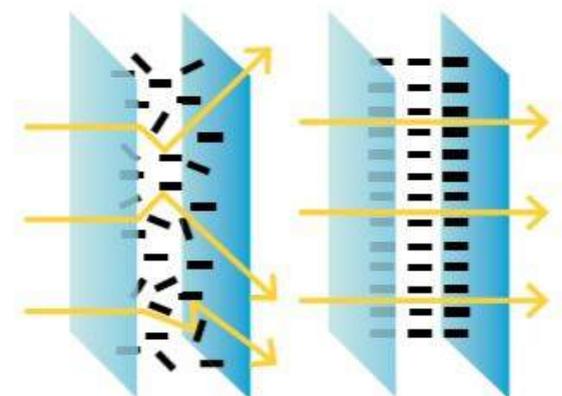
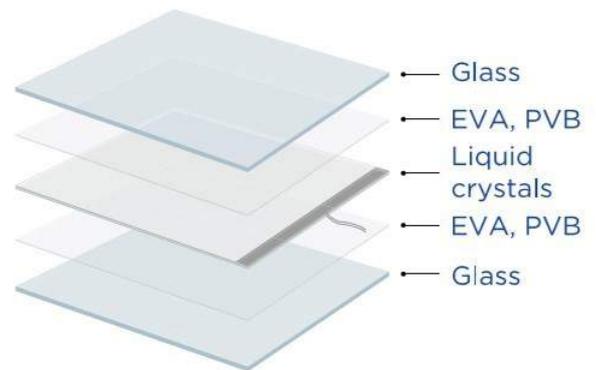
OFF

Under the effect of an electric current, privacy glass switches from translucent to transparent with no alteration of light transmission.

Two layers of extra clear glass enclose a liquid crystal (LC) film inserted between EVA or PVB layers. Privacy Glass is transparent when voltage is applied, and translucent when voltage isn't applied.

When an electrical current is passed through the film between the interlayers, all the liquid crystals within the film align, turning the glass from translucent to transparent.

With Privacy Glass there's no compromise between light and privacy. When in the 'OFF' state, privacy is completely obscured with a haze of over 90% yet maintains high levels of light transmission through the glass.



Coloured Privacy Glass

Colour Privacy Glass provides many opportunities for the design and use of privacy control on demand in either residential or commercial locations including; bathrooms, shower rooms, interior room partitions, office screens, glass floors, shop fronts etc.

12 Colour Options:

ON

OFF

Bahama Yellow



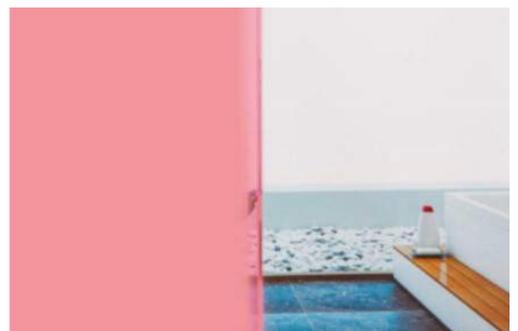
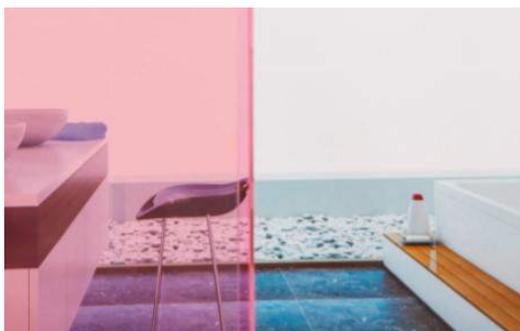
Orange Tree



Sunset Red



Morning Rose



Coloured Privacy Glass

ON

OFF

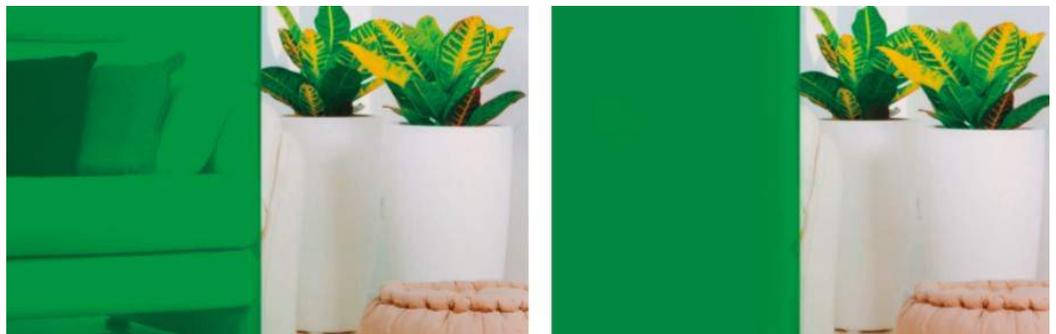
Coral See



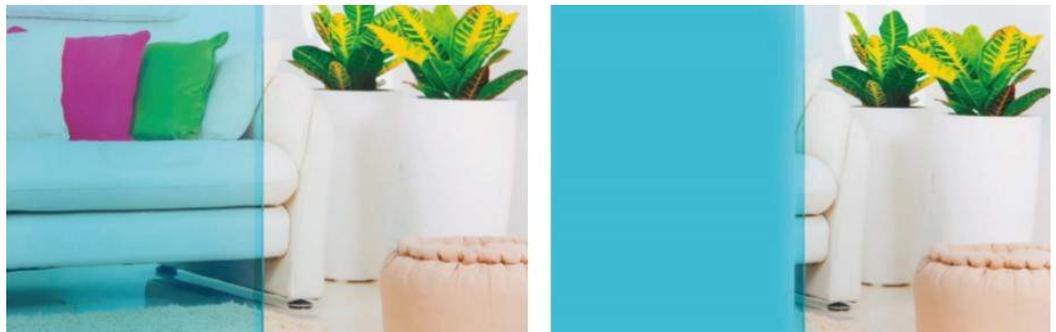
Olive Green



Emerald Stone



Aquamarine



Coloured Privacy Glass

ON

OFF

Sapphire Sky



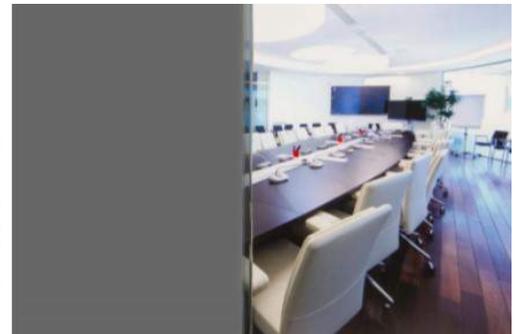
Bluish Violet



Twilight



Ocean Grey

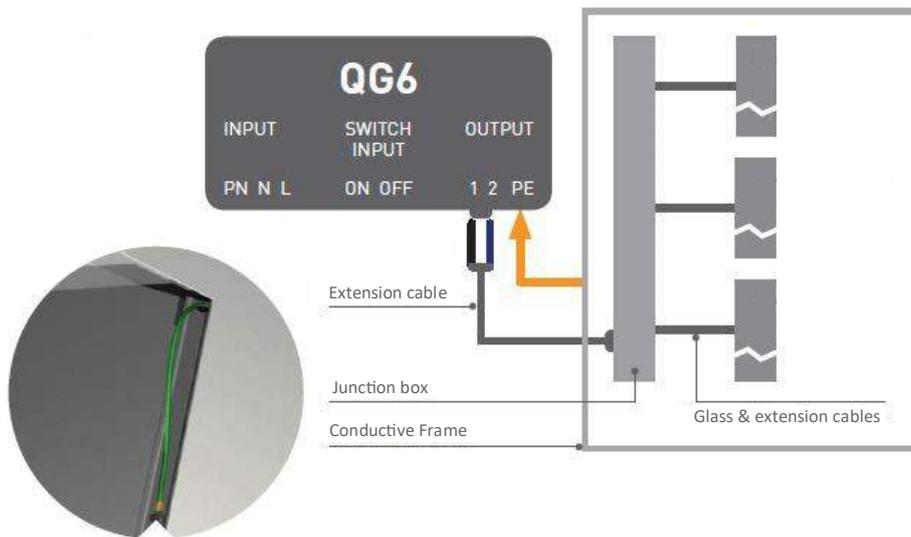


Wiring Diagram

Grounding of conductive frame

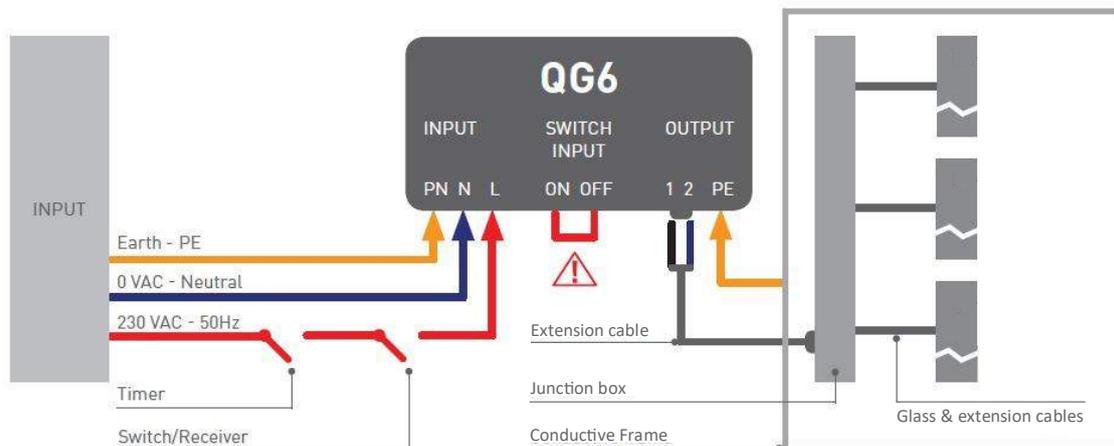
If the framing is conductive (aluminium, lacquered steel, stainless steel etc), it is then necessary to connect them to the terminal Output PE of the power supply unit using green/yellow cable.

Ensure all framing segments are interconnected, if not then each segment must be independently connected to earth.



Connection of the switch/ receiver on the QG6

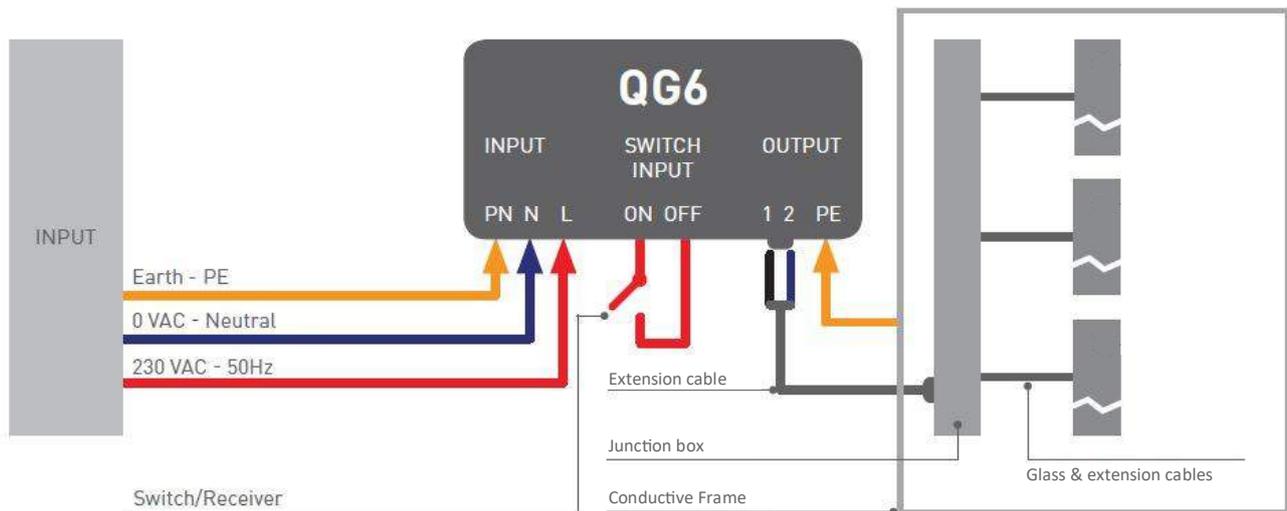
The switch or the receiver of the remote control, and optional timer switch, must be connected in series either on the Input or on the Switch Inputs of the power supply unit.



Wiring Diagram

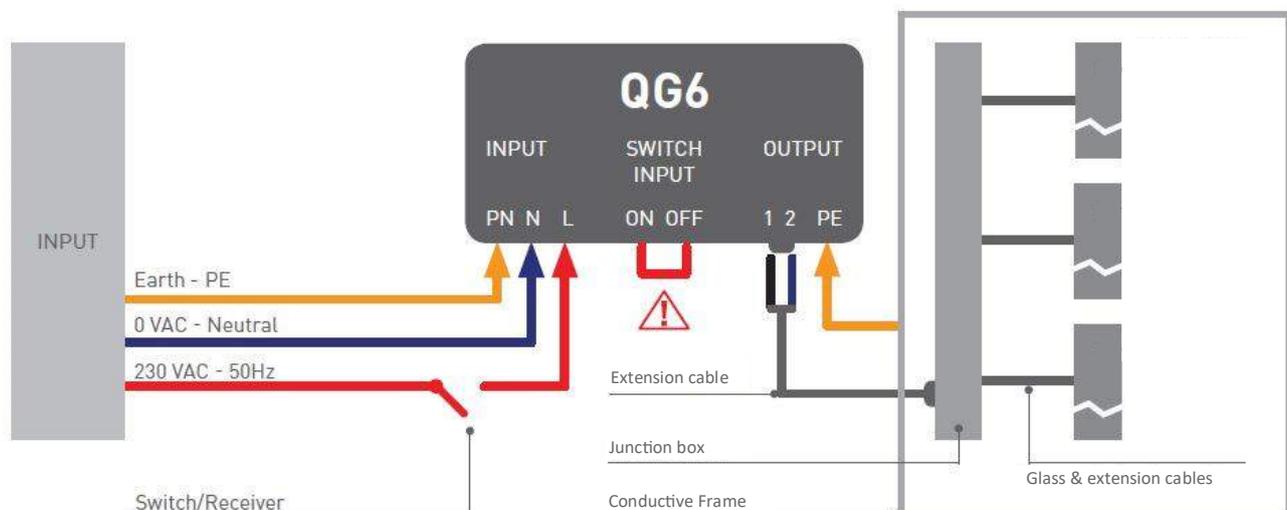
Connection of the Switch/ Receiver on the QG6

The switch Input has been implemented for low voltage switch/receiver (dry contact, without potential) dedicated to wet applications such as bathroom, swimming pool etc.



Connection of the main power to the QG6

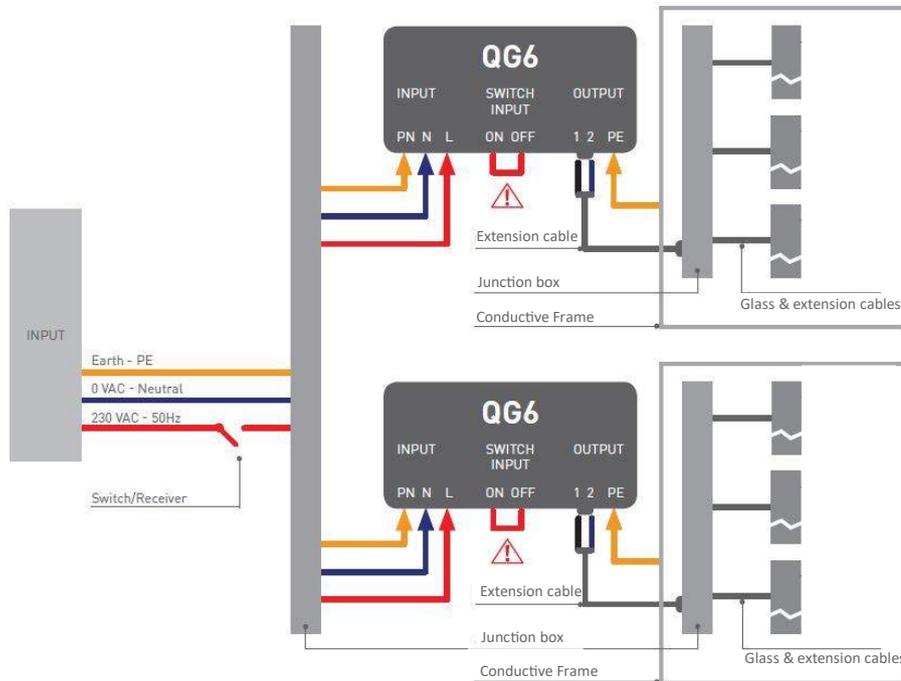
- The Phase (red or brown cable) must be connected on the terminal Input L
- The Neutral (blue cable) on the terminal Input N
- The Earth (green/yellow cable) on the terminal Input PE
- Cable section of 3 x 1,5 mm² (16A) is enough



Wiring Diagram

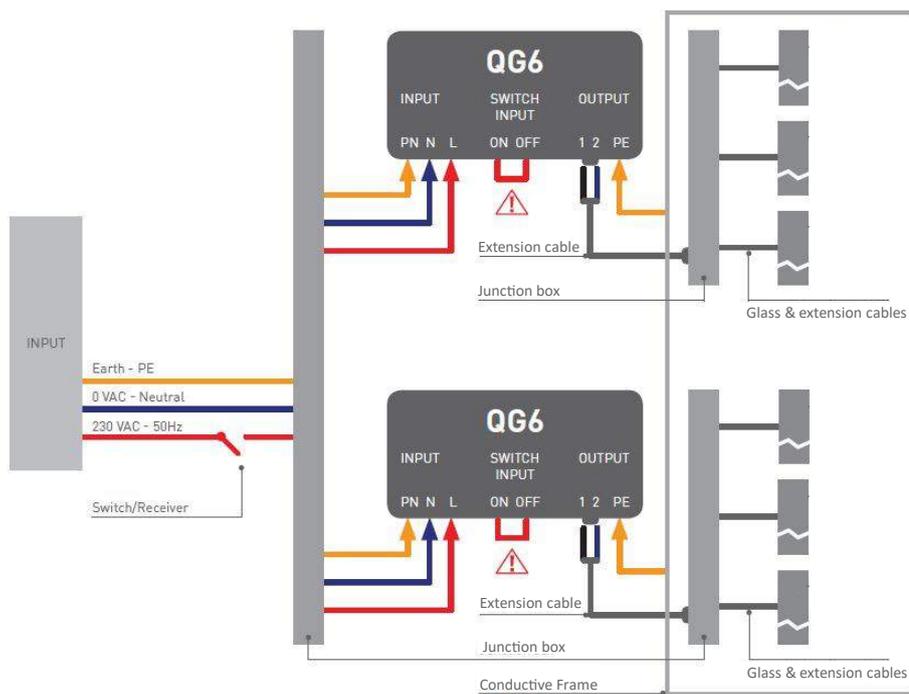
Correct non standard installations

One common switch for several QG6



Correct non standard installations

One common conductive frame for several panels



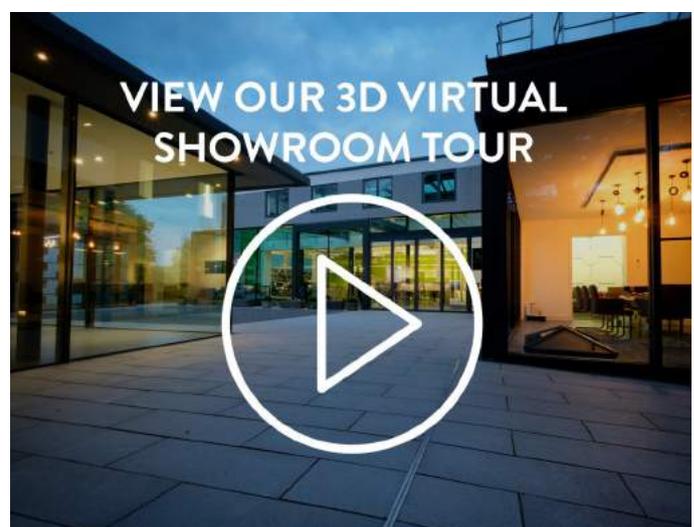
See Privacy Glass at the showroom

Privacy Glass is available to see at the IQ Glass Showroom in Amersham. The Privacy Glass installed here is within a large frameless internal window that separates two rooms in the office. These rooms are used on a regular basis and therefore the privacy glass is used frequently to provide an element of privacy when both rooms are in use, then switch back to transparent to allow the light to shine through.

The Privacy Glass installation on display showcases a large glass window to one of our meeting rooms which can be obscured at the touch of a button.

In the video in the top right, a member of our showroom team demonstrates how the privacy glass works and how it looks when it switches between its two states.

If you would like to see this demonstration in person simply arrange a visit to our showroom. We encourage Architects and Designers to come and experience switchable privacy glass for themselves in our showroom where our showroom advisors can discuss the technical information and offer advice on projects.



How to Specify Switchable Privacy Glass from IQ Glass

Privacy Glass is an established electrical glass solution that allows controllable privacy through a glass unit, turning a glass unit from translucent to transparent instantly.

Speak to the team at IQ

The team at IQ are the experts in our product range. If you are considering using switchable privacy glass on your project speak to the team at IQ who will be able to advise you on the best solution for your intended design, ensure that all specification criteria are met and advise the feasibility to areas of the installation you may not have considered.

Get a Quotation

We advise our customers to get a quotation for their intended privacy glass installations from IQ. This allows us all to ensure that the preferred product and design is within budget. If it is not we can help you adjust the specification to reach all performance, design and budgetary requirements.

Add us to your NBS Specification

To assist you in specification we have created individual NBS Specification sheets for the privacy glass product. These, easy to navigate, documents contain all the vital information needed for specification. They are available for you to complete on your own, alternatively ask your sales representative at IQ to complete this on your behalf

Place the Order

When ready you (or your client or the builder) can then place the order for your privacy glass with us. A full in-house handover will take place and your project will be passed to the contracts and design team. Once your project deposit is placed we will then undertake full design drawings for the installation and any other additional glazing works. Please allow at least 20 working days for the design process.

The project will be appointed a dedicated contracts manager who will oversee the installation process.

The estimated lead time for privacy glass is 8 weeks. This may be longer for specialist installations. This will be confirmed on order.

Where can I see switchable privacy glass before order?

We have a switchable privacy glass installation available to view at our showroom in Amersham.

The privacy glass is installed within a large internal frameless window connecting two separate rooms. The privacy glass is used here on a regular basis to provide privacy when both rooms are in use and switched back to transparent after use.

If you or your clients would like to see the privacy glass in person just contact us and arrange an appointment at the showroom.