KwickSwitch

RETROFITTED SWITCHABLE FILM

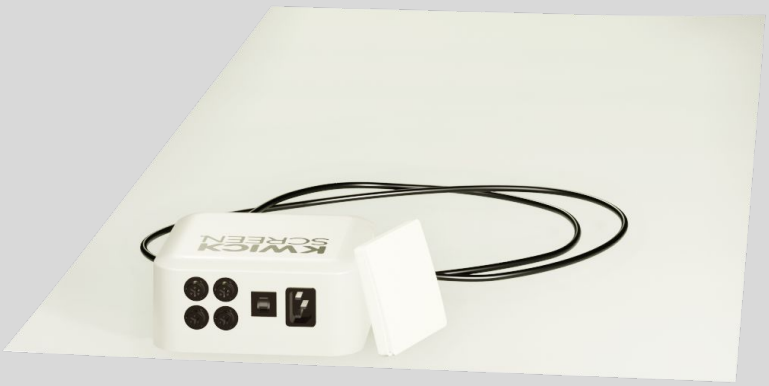
V1.2

POWERED BY

KWICKSCREEN

MAKING SPACES

KwickSwitch, is the solution for flexible privacy on glass with a retrofit film-based installation. It's certified for electrical and fire safety, offering a turnkey solution for your healthcare environment.



- Provides instant privacy with the flick of a switch
- Retrofittable to any smooth glass pane
- Electrical connections prewired
- Wireless, battery-free & mountable control switch
- Individually fused control box that can support up to 4 separate areas
- Click and go connections for easy install
- Low power usage
- Can be cut to suit non-rectangular shapes
- EN13501-1 Euroclass B fire performance and medical grade power supply within a UL94-V0 enclosure for the best fire safety
- 3 year warranty
- Install does not require heat

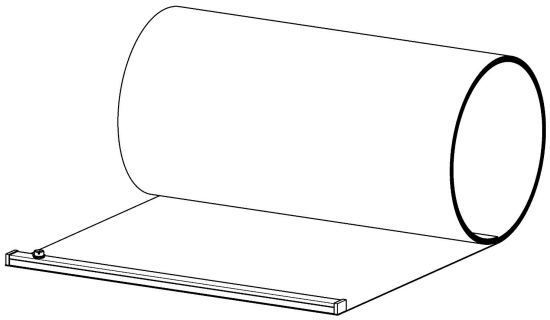
Intelligent and Sleek Design

Introducing KwickSwitch, our solution designed to turn any glass panel into a switchable opacity pane. It gives you the flexibility to switch from clear to opaque for instant privacy.

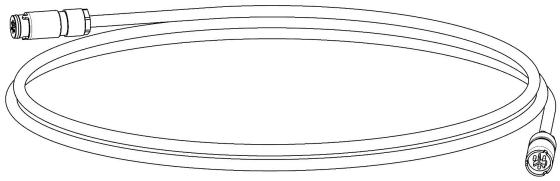
KwickSwitch can be easily retrofitted with a simple installation process. The product is certified for compliance with both fire and electrical codes.

The KwickScreen system is plug and play requiring no specialist electrical skills. We supply prefabricated panels, and wireless battery-free switches which allows for a completely flexible installation.

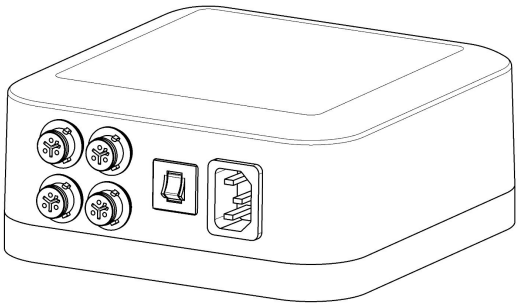
System Components



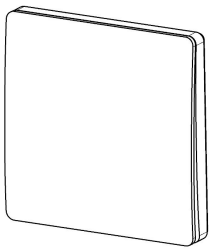
Switchable Panel
Self adhesive with
pre-installed power rail.



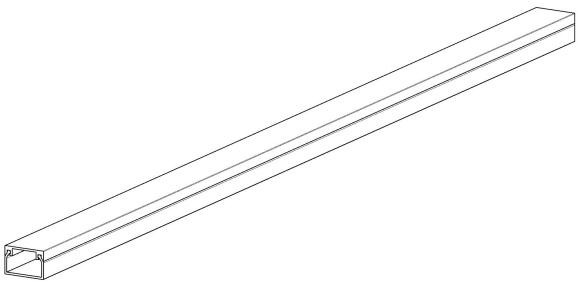
Connector Cable
Push fit cable available
in various sizes.



Control Module
Supports up to 4 Panels
in parallel.



Switch
Wireless and
battery-free.
Can be wall mounted.



Trunking
Used for external cable
routing and dressing.
Self adhesive.

General Layout

Switch
Wireless and battery free
Can be wall mounted

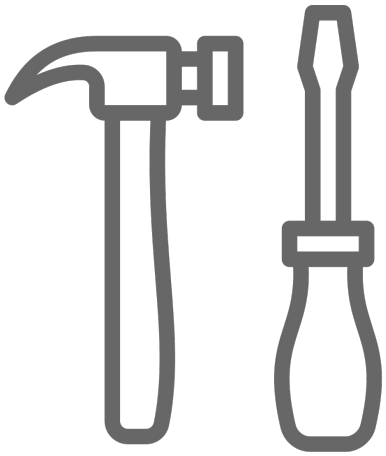
Control Module
Hidden above ceiling of behind panel etc. Connect to power socket.

Connector Cables
Run across ceiling or in trunking for neat finish and with push fit for easy install

Trunking
Used to hide visible cabling. Door kits available.

Switchable Panels
Film installed on glass panels

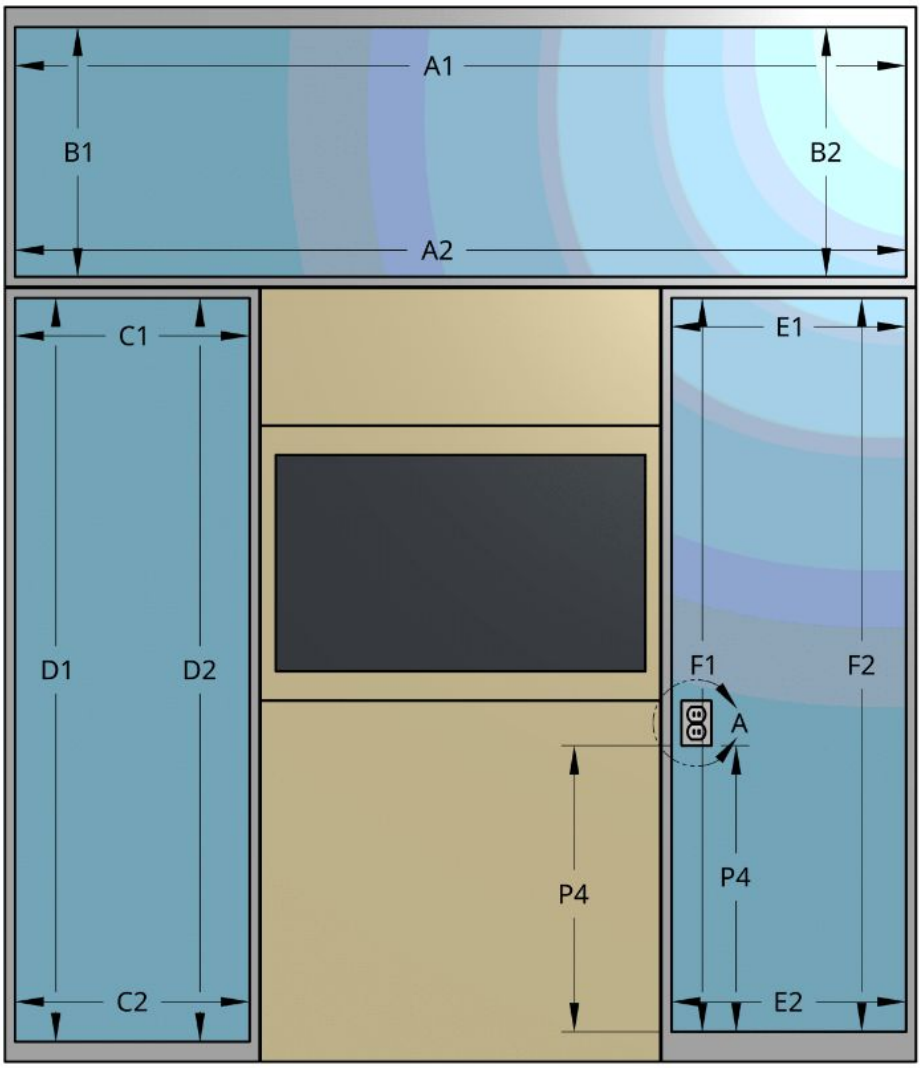
How to order

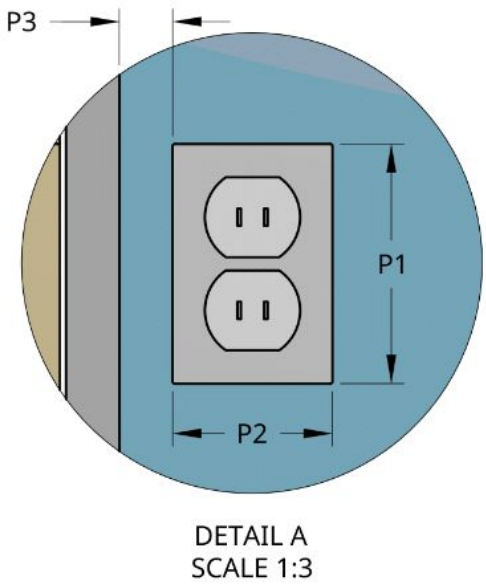


DIY

We ask for dimensions showing the panel sizes required and the cable routing. From these we will generate the drawings for you to sign off before we put the parts into production. The kit will need to be installed by a competent installation team. Details on how to measure your panels can be found on the next page.

Measuring Panels





DETAIL A
SCALE 1:3

When measuring panels please provide dimensions inside the frame and gasket. This is the visible glass surface where the film is applied. We'll adjust the size to allow for hidden tolerances during installation. For each axis, provide 2 measurements, as shown above, to check squareness. Also, indicate any elements the film should avoid, like hinges or power units.

Cable routing, including dimensions, should also be sketched on to help us understand the length requirements.

Technical Specs

Cleaning Guidance
We advise the KwickSwitch Film be cleaned with a soft, non-abrasive cloth to avoid scratching the protective covering. Any general disinfectant will be suitable for cleaning and will not damage the polyester surface.

Power Supply Unit
Type: IEC Protection Class II
Input voltage: 230 VAC
Input current: 6A
Output voltage: 45 VAC
Output current rating (max): 1A
Frequency: 50 - 60Hz
Output capacity: 50VA
Operating (controlling) frequency: 433MHz
Enclosure material: PC (fire) UL94 V-0
Size 160x160x70mm
Weight 1.54kg

Switch
Switch Type: Push button switch
Number of keys: 1 key
Power mode: Kinetic energy self-power (no battery)
Operational life: 200,000 switchings
Operating frequency: 433MHz
IP Rating: IP67
Control distance*: 80m (outdoor) 25m (indoor)
Control Method: Pairing with Controller
Installation: Permanently fixed or placed on wall
using self adhesive 3M tape (supplied)
Working Temperature: -10^{0}C ~ +40^{0}C
Warranty: 3 Years
Size: 86x86x17mm

Technical Specs - Contd.

Single power bar
Input voltage: 45 VAC
Output voltage (to film): 45 VAC
Output current rating (max): 1A
Output capacity: 50VA
Size: 16x25mm x (custom length, min 76mm, max 3000mm)
Material: UPVC (Polyvinyl Chloride – unplasticised)

Double power bar
Input voltage: 45 VAC
Output voltage (to film): 45 VAC
Output voltage (to power bar outlet): 45 VAC
Output current rating (max): 1A
Output capacity: 50VA
Size: 16x25mm x (custom length, min 76mm, max 3000mm)
Material: UPVC (Polyvinyl Chloride – unplasticised)

Film
Fire performance
European Fire Safety Standard EN 13501-1 Class A, s1, d0
ASTM E84 Class A

Entire System Tested to the Following Standards
ANSI C63.4:2014, Class B
CISPR 32:2015, Class B
CISPR 11:2015 + A1:2016, Class B
IEC 61000-3-2:2018 + A1:2020, Class A
IEC 61000-3-3:2013 + A2:2021
EN 61000-4-2:2009/IEC 61000-4-2:2008
EN IEC 61000-4-3:2020
EN 61000-4-4:2012/IEC 61000-4-4:2012
EN IEC 61000-4-5:2014 + A1:2017
EN 61000-4-6:2014/IEC 61000-4-6:2013
EN IEC 61000-4-11:2020
EN 61000-4-39:2017/IEC 61000-4-39:2017

Technical Specs - Contd.

Item		Mode	Specification	Testing Standard
Optical parameters	**Visible Light Transmittance**	ON	>88%	GB/T 2410-2008 spectrophotometer
		OFF	>60%	
	Parallel Light Transmittance	ON	>66%	GB5317.2-2002
		OFF	<1.5%	
	Haze	ON	<3%	GB/T 2410-2008 spectrophotometer
		OFF	>92%	
	Visual Angle	ON	>160°	Visual
	Blocking of UV light	ON	>99%	
		OFF	>99%	
	Blocking of IR light	ON	>30%	
		OFF	>90%	
Electrical Parameter	**Working Voltage**	ON	45V AC	Multimeter
	Saturation Voltage	ON	<36V	
	Response Time	OFF-ON	<20ms	Liquid Crystal Multi-parameter Electrical Measuring Instruments
		ON-OFF	<10ms	
	Power Consumption	ON	<5W/M	Multi-parameter Electrical Measuring Instruments
Mechanical Parameter	**Thickness**	0.4mm		
	Adhesion	50g/mm		
Environmental Parameter	**Working Temperature**	—20℃ —70℃		Constant Temperature and Humidity Testing Machine
	Storage Temperature	—20℃ —80℃		
	Service Life	(ON)>10 years		GB18910.5-2008
	Switch Frequency	>80 million times		

PRIVACY

At the flick of a switch.

Visit www.kwickscreen.com for our full range.

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