



SWITCH
GLASS



Technical Guide
August 2009

SwitchGlass – TECHNICAL GUIDE

Film Technical Data

Film construction:	PET film containing LCD
Film thickness:	574 μ (construction)
Opacity Level (Haze): ASTM D 1003	5% when power is ON 90% when power is OFF
Luminous Transmittance: ASTM D 1003	76% when power is ON 48% when power is OFF
Solar factor: K Value (W/m ²)	Around 64% in both ON/OFF 5.6 – 5.8 in both ON/OFF
Light Reflection:	19% when power is ON 18% when power is OFF
Viewing Angle:	When in opaque state, can be used as a projection screen with a viewing angle of 160%

Electrical Properties

Operating mode:	ON = Transparent OFF = Translucent
Response time off/on/off	OFF to ON : 2ms On to OFF : 10ms
Driving Voltage:	110 V AC (60-60 Hz)
Power consumption:	6-8 W/m ²

Film Durability

Nr switches on/off	>500,000 times
Continuous time opening:	>50,000 (>5 years) warranted
Storage temperature:	-20°C min +70°C max
Utilization temperature:	-10°C min +40°C max

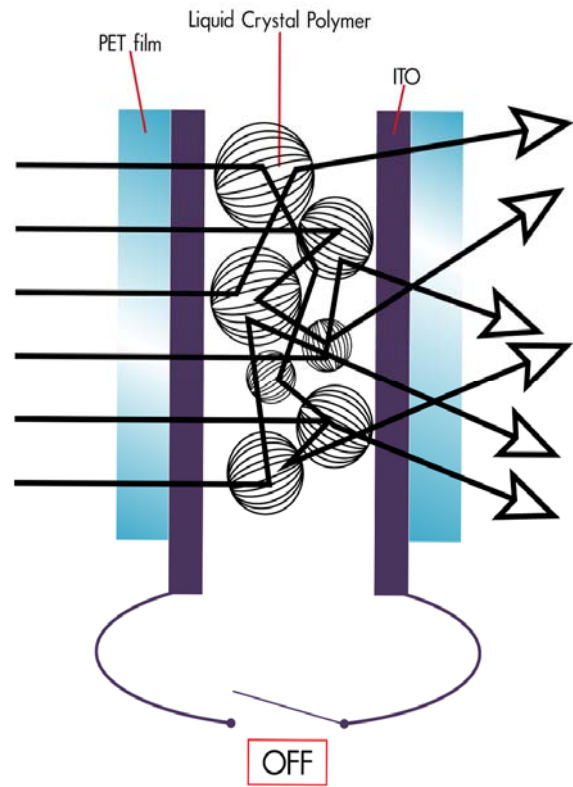
The Haze may appear greater when viewing the glass from an acute angle, the residual Haze and the slight image distortion are inherent to the product and are not considered to be a defect.

LCD being very sensitive to UV, it is recommended to use an anti-UV mounting film such as MACTAC B2115, especially if the switchable film is expected to be exposed to UV rays . Exposing unprotected LCD film to UV rays will undoubtedly result in a yellowing phenomenon and could damage the film.

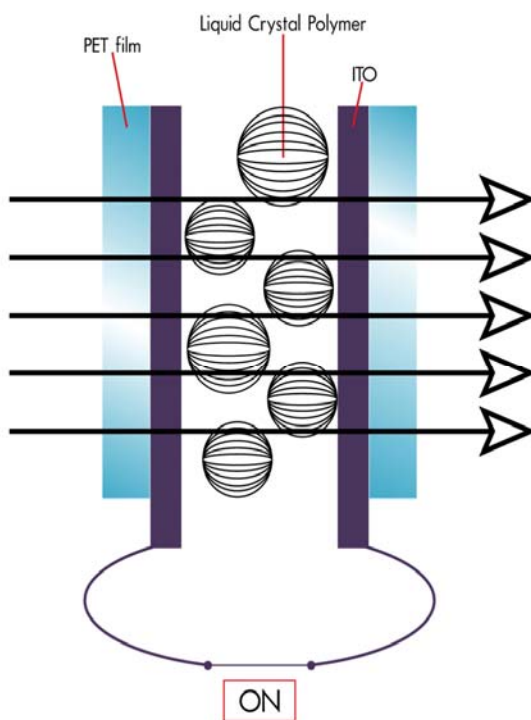
Komfort offers a warranty of 5 years on internally installed SwitchGlass and 3 years against yellowing if the SwitchGlass film is protected by an anti-UV film on externally exposed elevations

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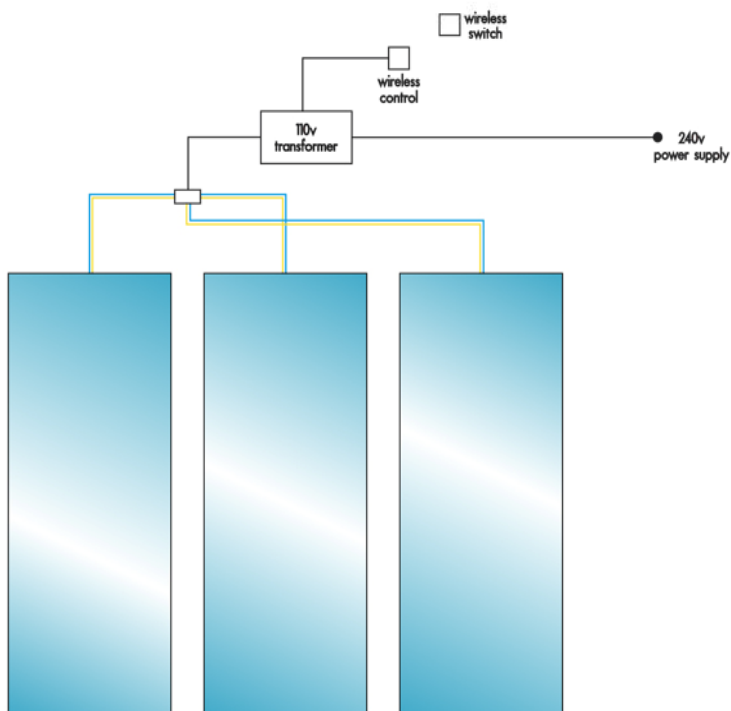
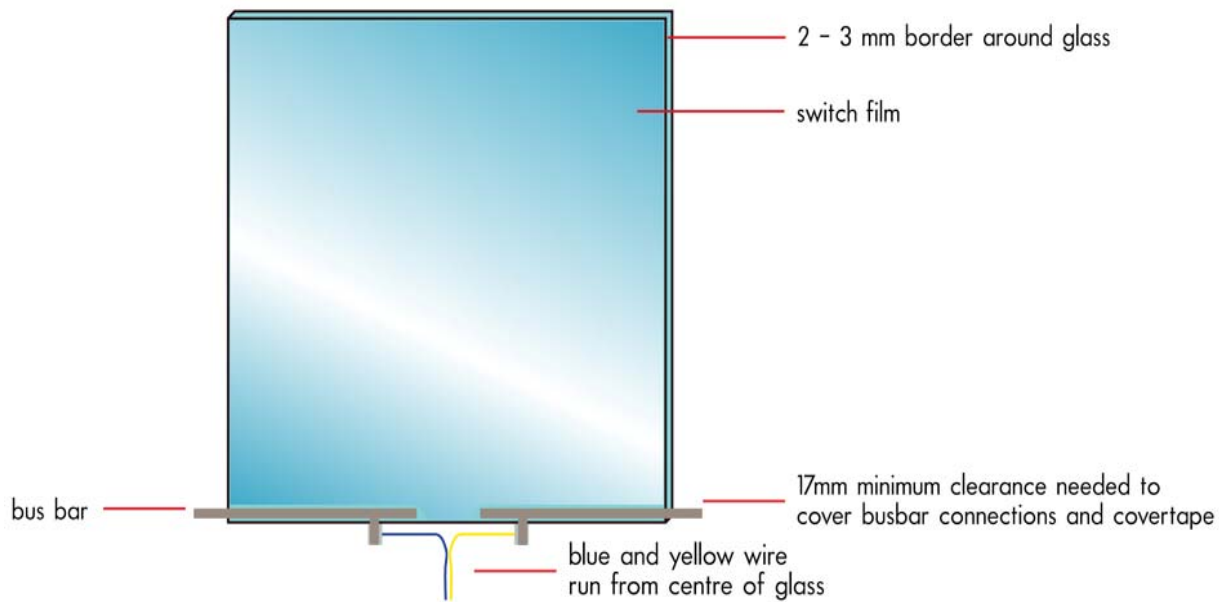
Opaque



Clear



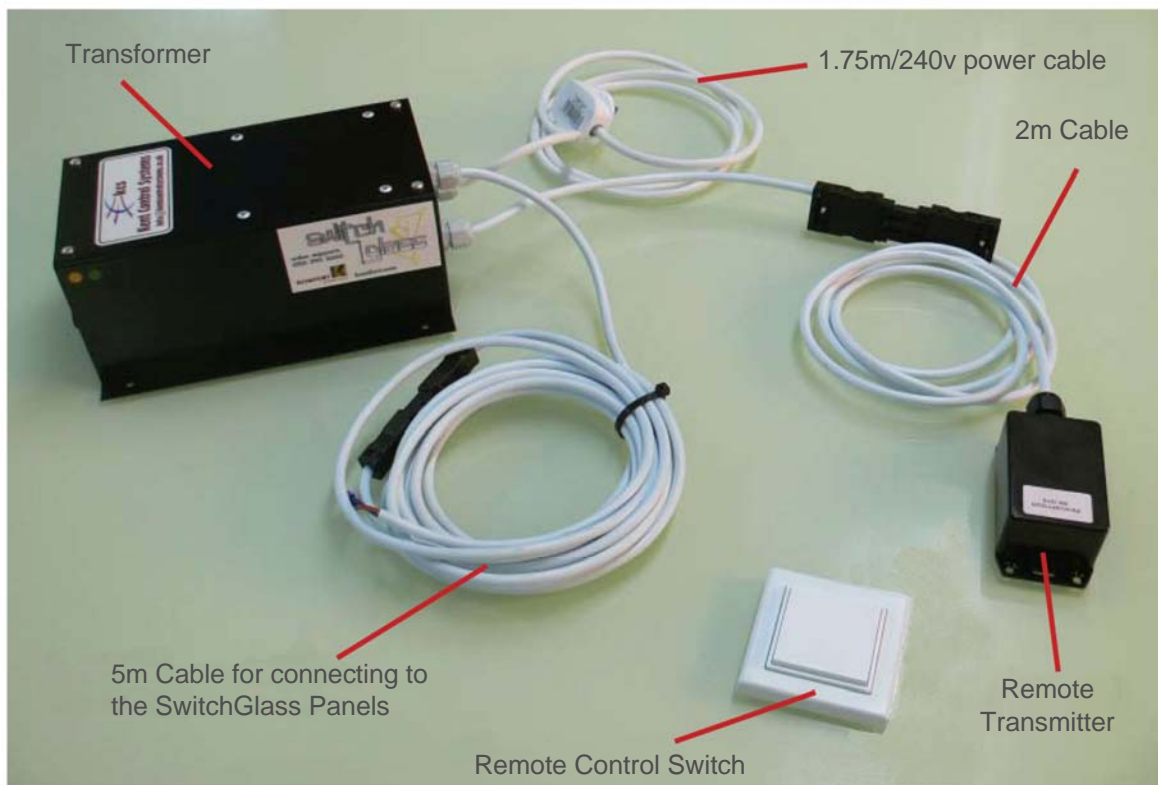
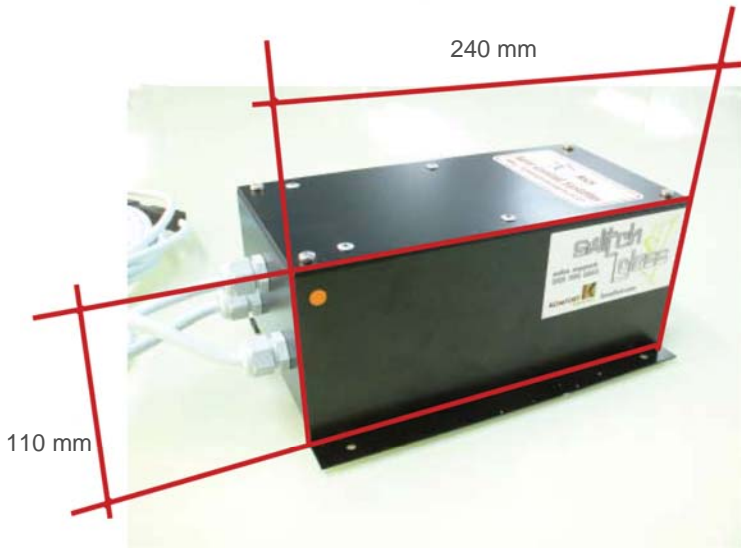
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glass: max. 10m² per transformer

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Approx weight: 3kg



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