

SMART/ SWITCHABLE GLASS



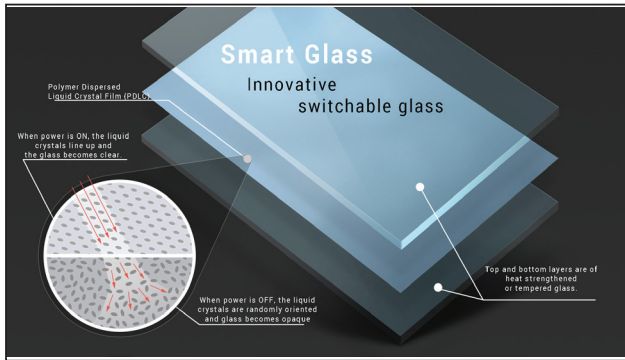
FUNCTION: METHOD OF ACTION

Smart/Switchable glass is made of two layers of transparent conductive film sandwiched with PDLC material. The film is then laminated between two pieces of glass.

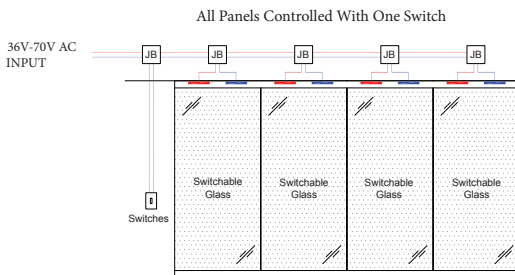
When electricity is applied to the film the liquid crystals line up and glass becomes transparent. When the power is turned off, the liquid crystals return to their normal scattering positions and turn the glass from optically clear to opaque.

PHYSICAL CHARACTERISTICS:

Response time	0.1sec sec
Temperature operation	-20~100 C
Storage	-30 ~60 C
Maximum width:	70 6/7" (1800mm)
Length:	150" (3810mm)
Life Expectancy:	100,000 hours
Standard Thickness:	1/2" (12mm)
Glass Type:	tempered, annealed, low iron



TYPICAL WIRING DIAGRAMS



CONTROL SYSTEMS



- Home automation integration
- IR Remote Control
- Mobile phone
- Switch
- Timer
- Door locks
- And much more!

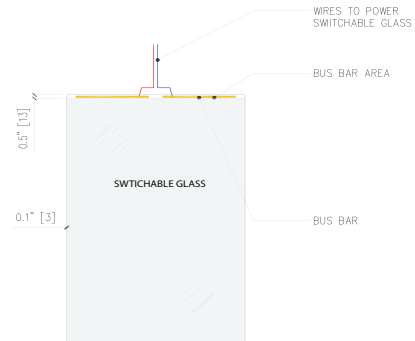
OPTICAL AND SOUND

	ON	OFF
Light transmittance	95%	67%
Light reflectance	14%	18%
Haze	4%	97%
UV block	99%	99%
IR block	12%	73%
Sound control	47dB	47dB

POWER:

Power - 36V-70V AC
 Frequency - 50/60Hz
 Current - 0.1 amperes per 10 sqft
 Power - 5 watts per 10 sqft

TYPICAL GLASS COMPOSITION



GLASS WALL INSTALLATION:

