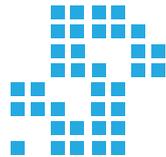


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PDLC PRIVACY GLASS

# PDLC PRIVACY GLASS



## Privacy Switchglass

Eco-friendly and intelligent, PDLC Glass for modern space design ...

- \* Easy installation
- \* 45/48/65 VAC
- \* High transparent, low Haze
- \* Different color
- \* Tempered glass
- \* Custom shapes/sizes
- \* RF, WIFI, App, Speech controll
- \* IP56 certified for wetroom/outdoor
- \* 4+4 up to 15+15 mm
- \* 1800 x 4200 mm max. Size



Modern space design, the best use of glass partition is to distinguish the space perfectly, separating the meeting room and office area, living room, bathroom public areas or use it as part of insulating glass as well.

Special certified IP56 sealing makes our privacy glass ready to use it in wetroom areas like toilet, shower, bathroom etc. as well.

## FIRST IP56 CERTIFIED PDLC GLASS

### PDLC Privacy Glass Spezifikation

Find out all the technical, optical and electrical spezifikation of our „white“ PDLC Privacy Glass.

|                     | Item Nr.                    | Mode     | Unit    | Tolerance | Value          |
|---------------------|-----------------------------|----------|---------|-----------|----------------|
| Optical             | Visible Light Transmission  | On       | %       | +/- 1     | 83             |
|                     |                             | Off      | %       | /         | >55            |
|                     | Haze Coef.                  | On       | %       | +/- 0,5   | 4,3            |
|                     |                             | Off      | %       | /         | >96            |
|                     | Viewing Angle               | On       | %       | /         | >120           |
| Electrical          | Operate Voltage             | On       | VAC     | /         | 48~65(50/60HZ) |
|                     | Response time               | On-->Off | ms      |           | ≤100           |
|                     |                             | Off-->On | ms      |           | ≤10            |
|                     | Power Consumption           | On       | W/h/m2  |           | < 5.0          |
| Operate Mode        |                             | On       | /       | /         | Transparent    |
|                     |                             | Off      | /       | /         | Opaque         |
|                     |                             | Dimming  | /       | /         | Yes            |
| UV Rejection        | On/Off                      | %        | /       | ≥99       |                |
| Scratch resistance  | /                           | /        | /       | Yes       |                |
| Working Temperature | /                           | C°       | +/- 0,5 | -20~65°C  |                |
| Storage Temperature | /                           | C°       | /       | -20~60°C  |                |
| Lifetime            | On                          | hrs      | /       | >80000    |                |
| Thickness           |                             |          | mm      | +/- 0,05  | 3+3 / 15+15    |
| Noise reduction     |                             |          |         |           | ca 35db        |
| Temperated          | If nothing else is defined! |          |         |           | Yes            |
| Stamp (ESG)         | If nothing else is defined! |          |         |           | No             |

\* For wetroom usecase we deliver IP56 sealed privacy glass (shower, bathroom, sauna etc. ...)

\* Different combination with photochrome solarprotection or IGU glass available

### Type of glass (single or IGU)

We produce out privacy glass on request - means the client get exact dimension and shape he need for his project. A varius of diffentend combinations with other types of glass are available.

| Type     | max Size    | thickness    | temp. | color | ship to |
|----------|-------------|--------------|-------|-------|---------|
| Single   | 1800 x 4200 | 3+3 to 15+15 | X     | X     | global  |
| 2 IGU    | 1800 x 4200 | 3+3 to 15+15 | X     | X     | global  |
| 3 IGU    | 1800 x 4200 | 3+3 to 15+15 | X     | X     | global  |
| Heatable | 1800 x 4200 | 3+3 to 15+15 | X     |       | global  |
|          |             |              |       |       |         |

### Indoor / Outdoor Application

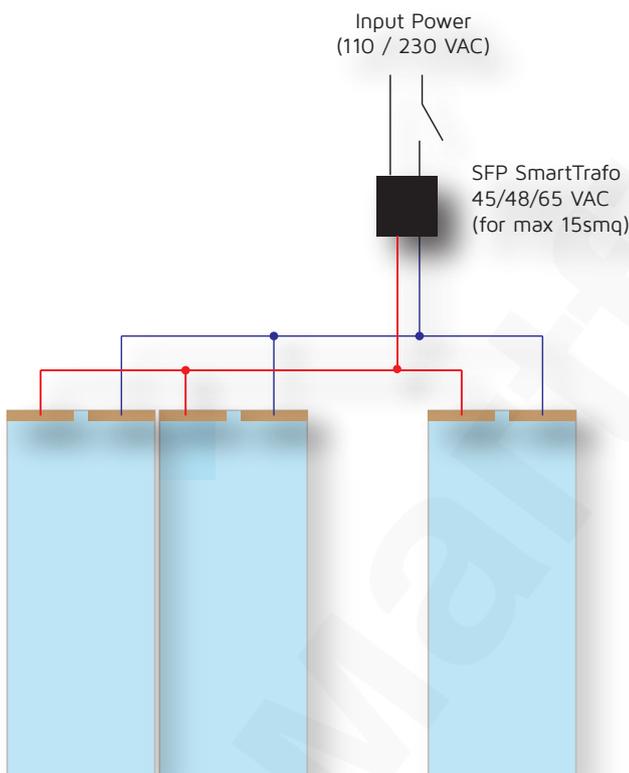
Many different types of application are available with our certified privacy glass. Indoor and outdoor for different type of usecase ...

|          | Application   |         | Coating / Sealing |      |      | Proofs |        |
|----------|---|---------|-------------------|------|------|--------|--------|
|          | Indoor  | Outdoor | photochr.         | LowE | IP56 | Sound  | Bullet |
| Single   | x   | x       |                   |      | x    | x      | x      |
| 2 IGU    | x   | x       | x                 | x    | x    | x      | x      |
| 3 IGU    | x   | x       | x                 | x    | x    | x      | x      |
| Heatable | x   | x       | x                 | x    | x    | x      | x      |
| Relais   | RF (1, 2, 4 chanel), WIFI, ALEXA, App, SmartHome, Crestron, AMX ... |         |                   |      |      |        |        |

### Connection Privacy Glass - SmartTrafo

All of our LC products works with our certified SFP SmartTrafos. They support the Privacy Glass with AC power in different watt.

The SFP SmartTrafos are so called High Secure Trafo, include a two way fuse controll and have limeted max. output Power.



- \* High secure Trafo
- \* Double Fuse System
- \* 45/48/65 VAC
- \* IP65 certified
- \* EU & US Version
- \* CE Certificate
- \* Made in Austria
- \* indoor, outdoor
- \* wetroom

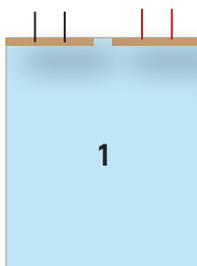
### Busbar Location (Glass)

The busbar on smartfilm or smartglass can be on several different locations - depending on the relation of the long and short edge. Each glass comes with two wires on every busbar (one productive / one spare)!

#### How to decide the busbar location?

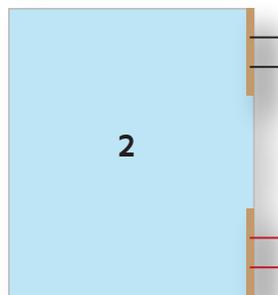
If the relation between one long side and one short side is less than 1:2 you can choose location Nr.1 or Nr.2 or Nr.3 or Nr.4. If the relation is higher than 1:2 you have to use location Nr.3 or Nr. 4

One short side



1

One long side



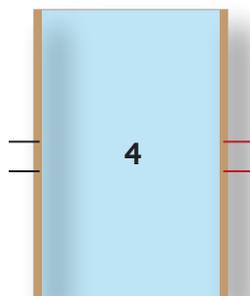
2

Both short sides



3

Both long sides



4

- \* four different types
- \* one short side
- \* both short sides
- \* one long side
- \* both long sides

### IP65 Certification / Wetroom / Outdoor

We passed the IP56 certification on the koncar institute with our pdlc glass. That enables us to install our switchglass also in wetrooms or outdoor. But there some special requirements to be observed

- the electrical wires needs to be on the top side of the glass
- all four sides needs to be covered with a frame element
- the glass need do sunken into (acid free) silicone
- OUTDOOR - under UV lasting the glass begins to turn yellow\*
- for a better protection again yellowing we recommend IGU with PDLC
- the operating temperature must be maintained
- all connections must be made by an electrician (IP..)

\* yellowing after a while is not a warranty case!



- \* IP56 certified
- \* wetroom installation
- \* outdoor installation
- \* special sealing
- \* bathroom
- \* sauna, wellness
- \* on request ...

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## PDLC Privacy Glass



- \* different color
- \* 3+3 - 15+15 mm
- \* 1800 x 4200 mm
- \* tempered glass
- \* all electronical parts
- \* High secure SmartTrafo

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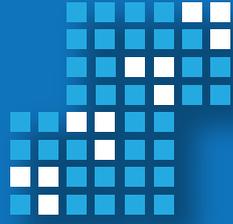
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## PDLC Privacy Glass



- \* blue, black, grey
- \* white, bronze, green
- \* IP56 Certificate
- \* Wetroom
- \* Global shipment
- \* Made in Austria
- \* Global Reseller Network

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