

Usually when we decide which side on smart film to make the busbar, we need to confirm the width and the length Ratio.

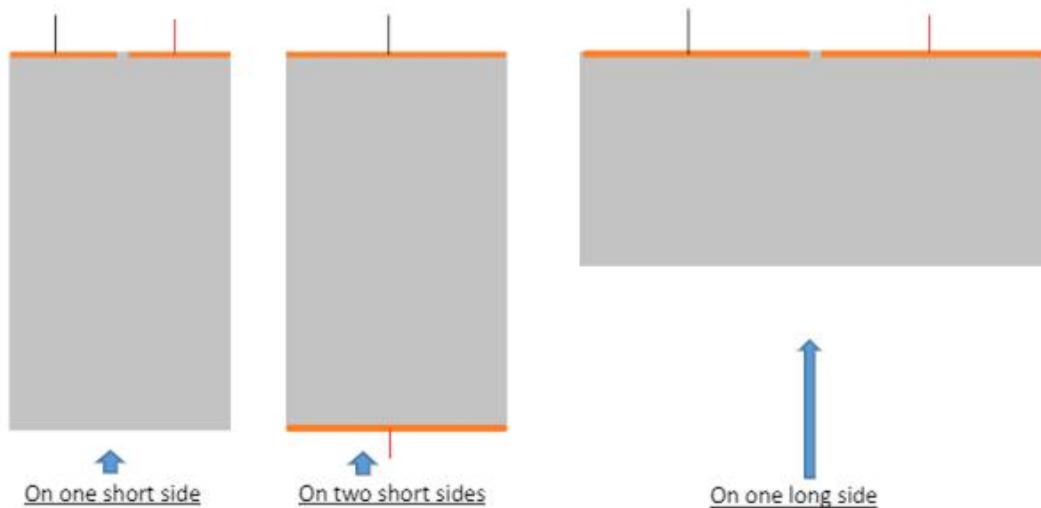
If the length-width ratio bigger than 3 : 1, then need to apply the electrodes on **one long side(Height Side)** or **two short sides(width side)**.

Because only one short side busbar are not enough to power the entire piece smart film, and the film transparency not the best.

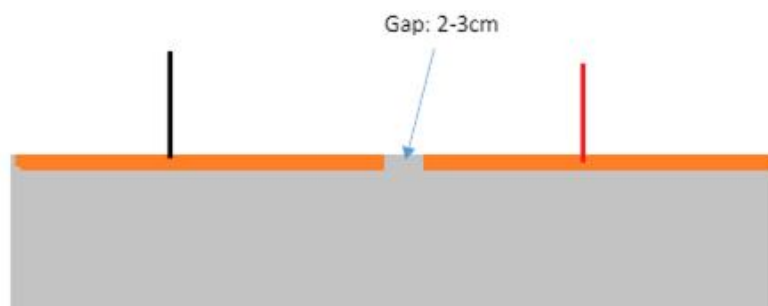
BUS-BAR(ELECTRODES) APPLYING RULES

SUMMARY:

1. You can make the bus-bar(electrodes) in below three ways accordingly to the film size



2. If apply in only one short side or one long side of the film, the gap between is around 2-3cm.



3. If apply on two short sides, then each electrode length is same as the length of the film.



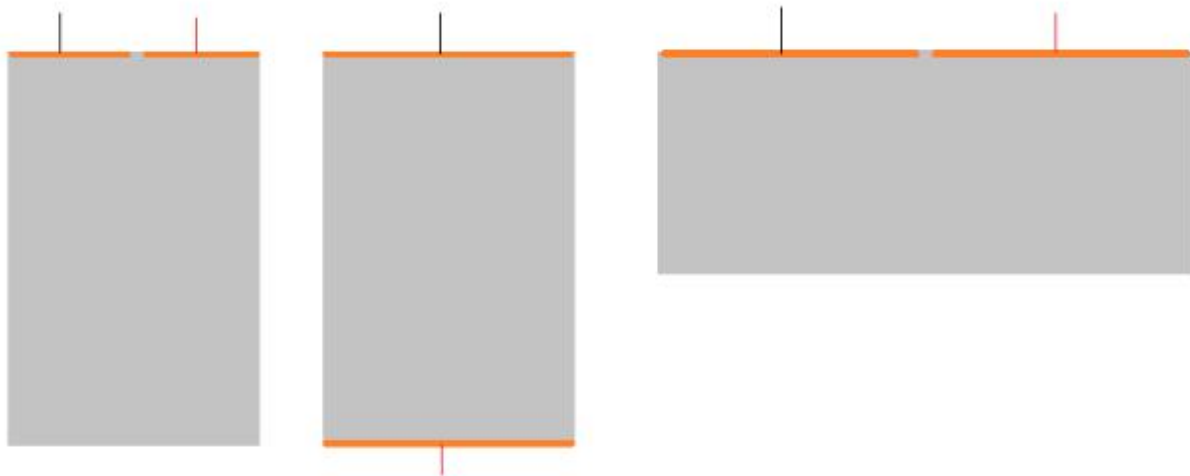
RULES THAT DECIDE ELECTRODES ON WHICH SIDE OF THE FILM

Usually when we decide which side on film to make the electrodes, we need to confirm the width and the length Ratio. If the length-width ratio bigger than 3 : 1, then need to apply the electrodes on one long side or two short sides. Because only one short side electrodes are not enough to power the whole piece smart film, and the film transparency not the best.

Below are rules when you want to apply the electrodes:

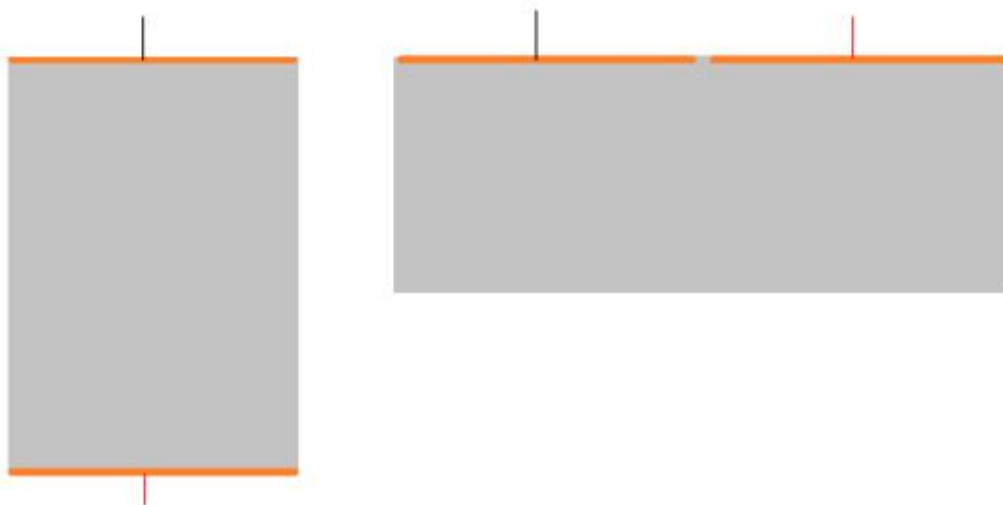
1. If maximum length less than 2500mm, and the film length : width < 3 : 1, then you can make bus-bar at either side you want, just like below. You can decide also according your installation environment.

For example: For film size 1000mm*2400mm, you can make electrodes like below, choose one type you want.



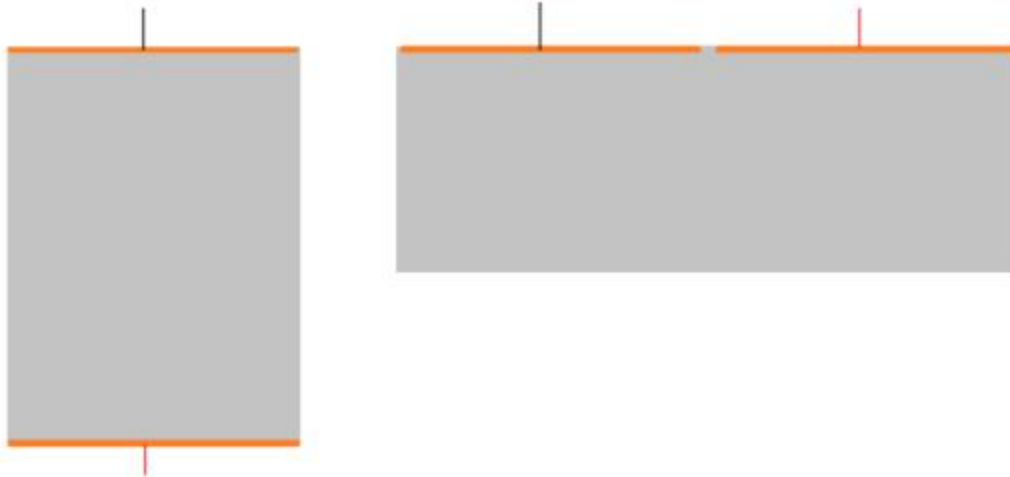
2. If maximum length less than 2500mm, and the film length : width > 3 : 1, then you need to make bus-bar either on two short side or one long side, as below:

For example: For film size 800mm*2500mm, please make electrodes as below, either two short sides or one long side.

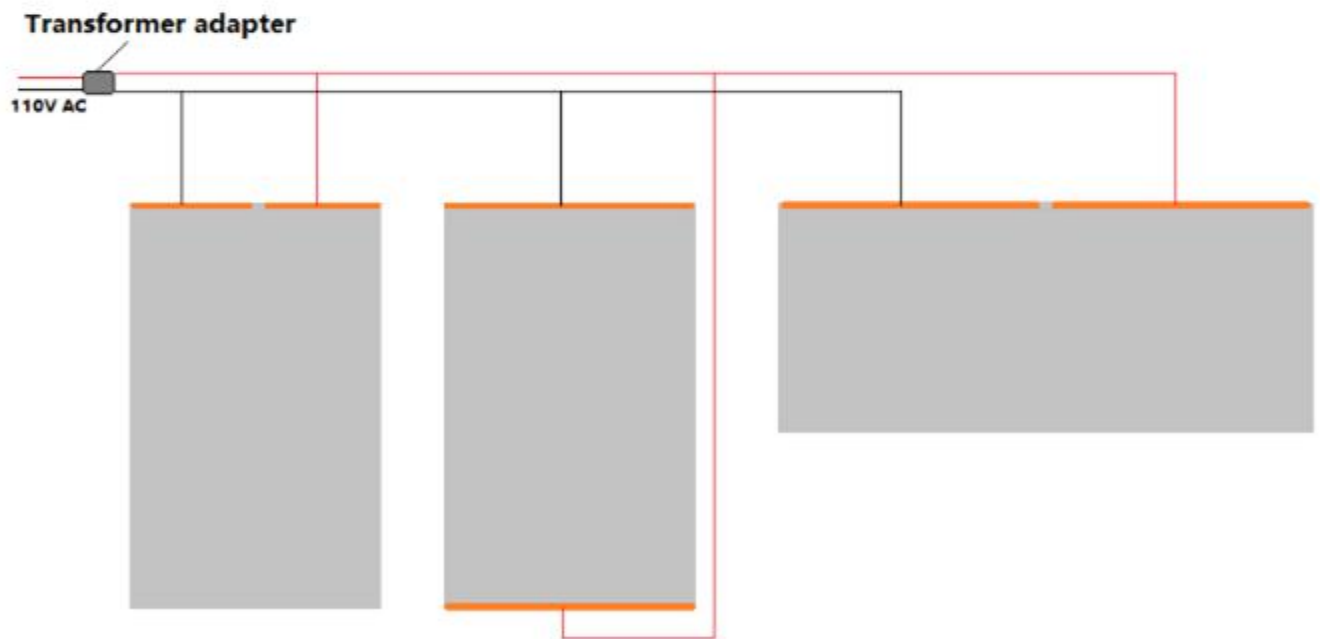


3. If length more than 2500mm, then you need to make bus-bar either on two short side or one long side, as below:

For example: For film size 1000mm*3000mm, please make electrodes as below, either two short sides or one long side.

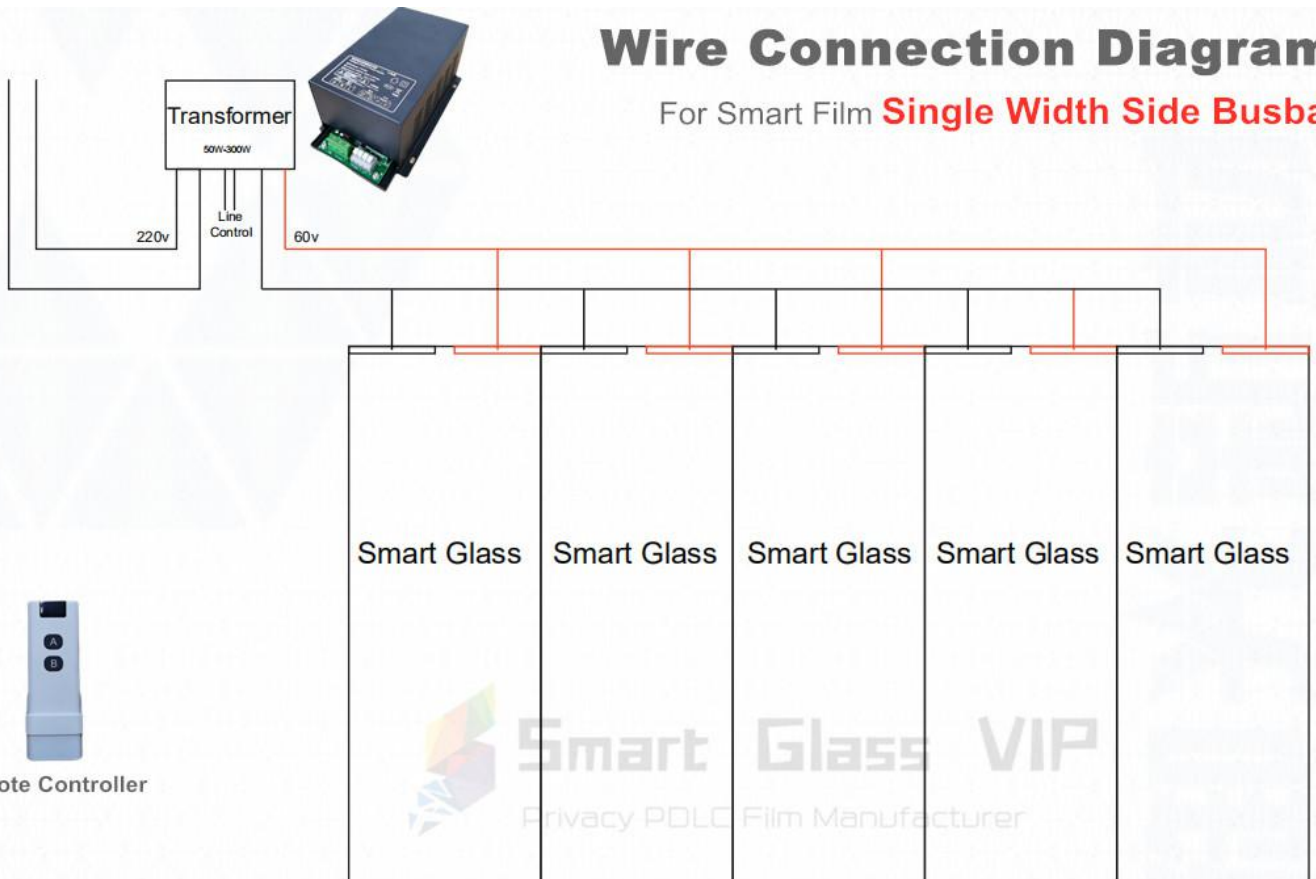


After electrodes done, you can connect to electricity as below:



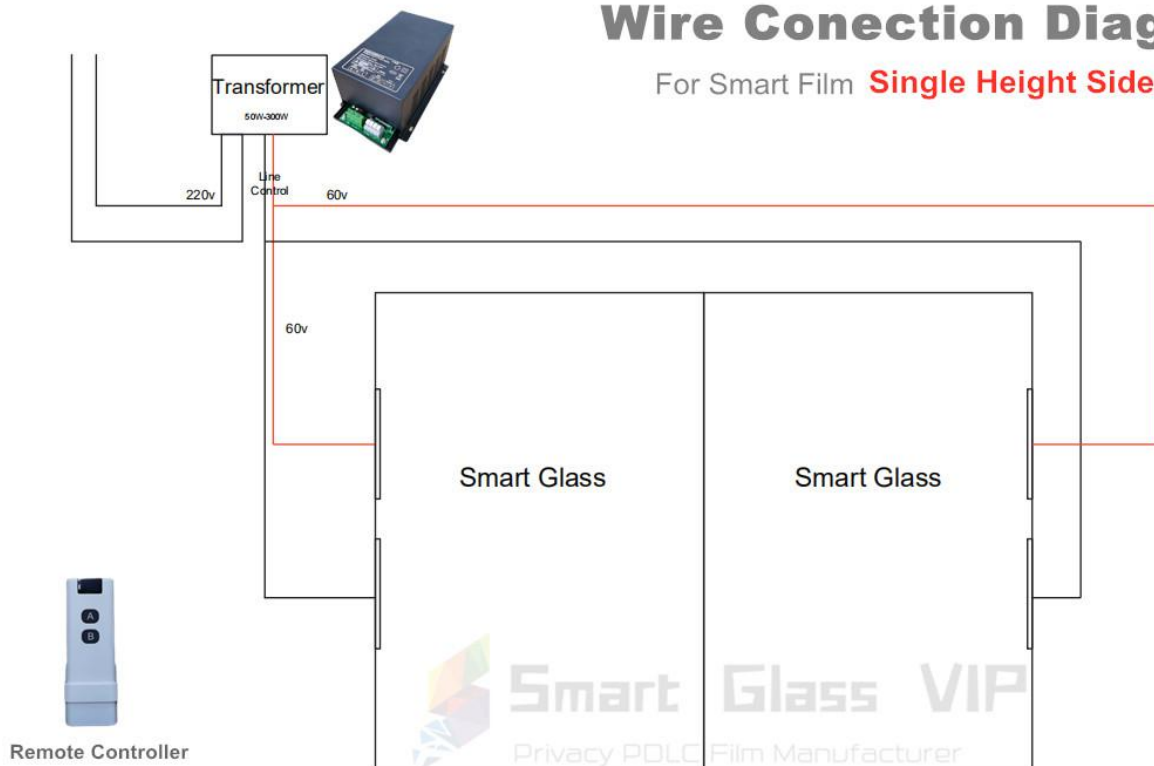
Wire Connection Diagram

For Smart Film **Single Width Side Busbar**



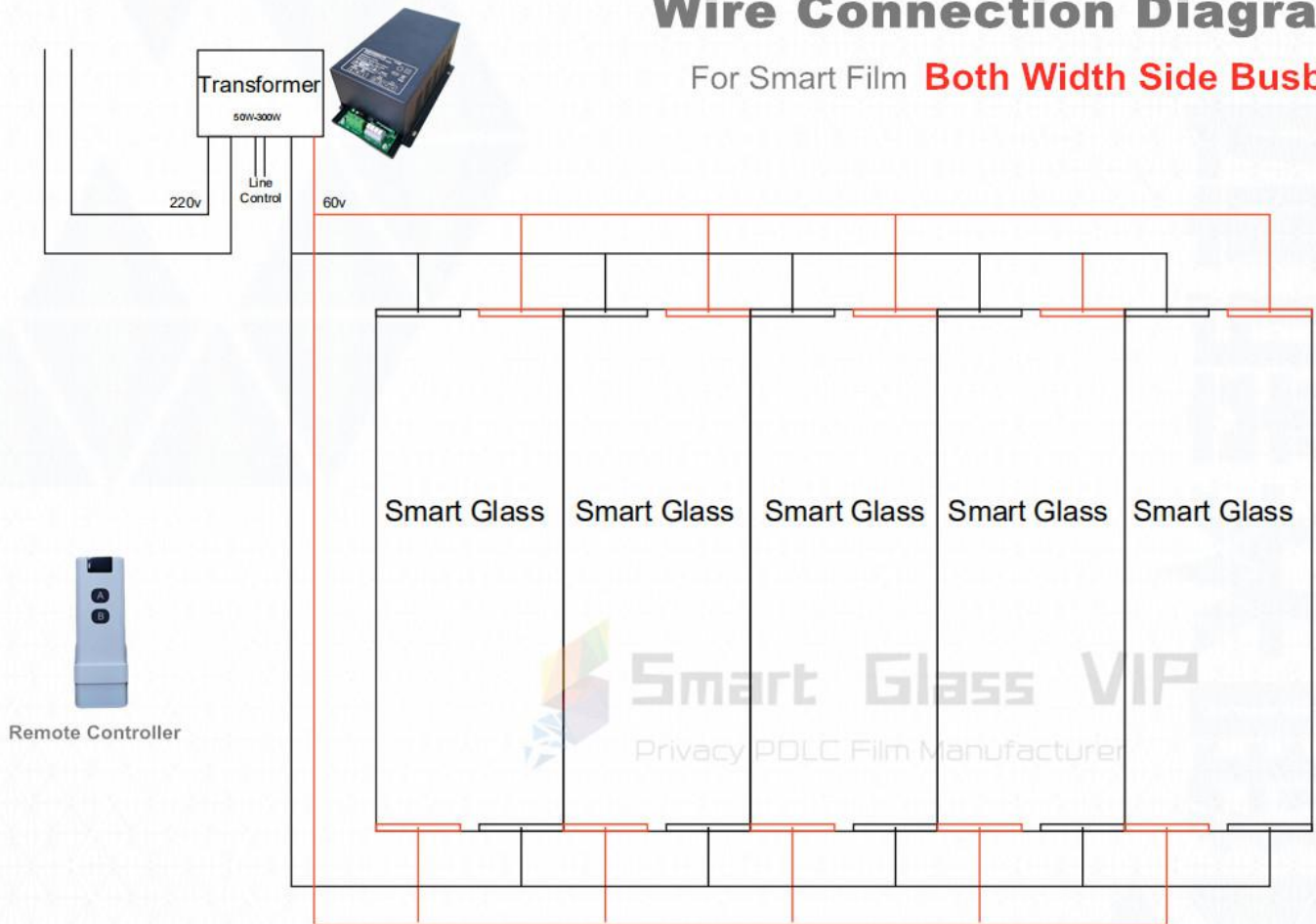
Wire Connection Diagram

For Smart Film **Single Height Side Busbar**



Wire Connection Diagram

For Smart Film **Both Width Side Busbar**



SGV is one of the biggest smart glass PDLC film manufacturer in China.

We specialized in providing wide range of Switchable Privacy smart glass, Self-Adhesive PDLC film, Non-Adhesive PDLC film and Accessories wholesale worldwide.

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