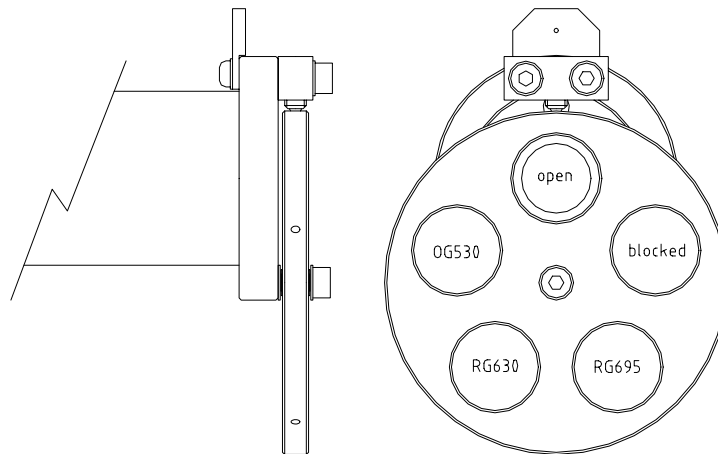


Application Note¹: **FW01 Filterwheel for DN5/E Pyrheliometer**

The FW01 Filterwheel allows a DN5/E Pyrheliometer to be used for broadband spectral measurement of direct solar irradiance.

Mount the FW01 to the three threaded holes that are provided on the window face of the DN5/E Pyrheliometer.

Rotate the Filterwheel to index between five positions.



The FW01 has three 3mm thick Schott longpass glass colour filters in addition to a blocked position and an open position.

| filter | colour | Cutoff WL | stop/pass limits | reflection factor |
|--------|----------|-----------|------------------|-------------------|
| OG530 | yellow | 530 ±6nm | 490-590nm | 0.91 |
| RG630 | red | 630 ±6nm | 580-680nm | 0.91 |
| RG695 | dark red | 695 ±6nm | 640-760nm | 0.91 |

Filter reflection factor is the ratio of the actual filter transmittance to the ideal² transmittance.

¹ App. Note P/No. 131.9550

² Surface losses are ignored in the transmittance of an ideal filter.