

## **VDO Face 5 – RCCB trips when connected in daisy chains**

---

The earth leakage current of one VDO Face 5 panel (under normal conditions, i.e. with no live or neutral fault) is 1.25 mA. The typical half-cycle RMS inrush current of one VDO Face 5 panel (again under normal conditions) is 7.9 A.

LED video panels like the VDO Face 5 are often connected to power in daisy chains. When multiple panels are connected on the same power line, the combined ground (earth) leakage and inrush currents can be high enough to trip the line's residual current circuit breaker (RCCB). The fact that RCCBs often trip at a significantly lower leakage current than their nominal rating increases the probability that an RCCB will trip unexpectedly when power is applied to a daisy chain of panels. If an RCCB trips, using a different RCCB may solve the problem. But in many cases the best solution is to reduce the number of video panels per daisy chain to less than the maximum permitted number that we specify for the product.