



Control unit for UVC LED modules that ensures safe operation

When using UVC LED modules, it is essential to ensure that people do not come into contact with UVC radiation. Low-wave UV light is harmful to health and therefore any contact with skin and eyes must be avoided. With our control system, we can guarantee that nobody is harmed by UVC radiation. In the room concept, the 4 UVC LED modules are controlled by our Power Controller V2. As additional components, a motion sensor is placed in the centre of the room on the ceiling, a button is installed in the door frame and an activating switch is installed behind the door (not in the room). The UVC light can only be activated manually via the switch (not in the room) when the motion sensor no longer registers any movement after 60 seconds, the push-button is activated by closing the door and all safety conditions are met by a green signal LED. The diagrams provide a detailed structure of the safety concept

The Power Controller V2 is an extremely flexible solution that can be customised to meet individual customer requirements. This means that the conditions for the safety concept can be made stricter or less strict. This can be realised with hardware and/or software adaptations by our in-house embedded team.

The layout and beam angle of the UV-C LED module can also be adapted to achieve optimum results. By fitting alternative UV-C LEDs, the optical output can be changed, but also the wavelength or even a broader spectrum can be realised (mixed fitting). The vertical range of manufacture at LUMITRONIX® is also variable. We design a suitable solution according to your needs!

