

EN54 Signalling Explained



The European Construction Products Regulation (CPR) directive, recently brought in the requirement for Safety and Fire Systems and Products in buildings to have 3rd party approval to the relevant standard. For Fire Systems and Fire Signalling, that standard is EN54.

In terms of the DualCom Pro range, the Fire variants have the following differences to that for security:

- Inputs 1 and 2 are fully supervised loops (1 fire and 2 fire fault). This means that the unit can identify the difference between a true alarm, a cable short circuit and/or a cable open circuit. These are sent via a different SIA code for each event.
- Relay 2 is the ACK signal to the panel, when a signal is sent and received from the ARC.
- Relay 1 is used as normal for dual path FLT.
- Relay 1 is also used for NACK of signal to the ARC.
- Relay 1 is also used for FLT indication the panel in the event of a short/open signal sent to the ARC.