

Sub-circuit monitoring

AC/AC Hold-off / changeover relays

It is a mandatory requirement that emergency lighting is energised in the event of a local sub-distribution failure, not just on total building supply failure.



- 01 Local mains supply
- 02 Static inverter output
- 03 Hold-off relay
- 04 Local light switch
- 05 Changeover relay

Hold-off & sub-circuit monitoring relays are used to energise luminaires in the case of local supply failure. They may be used to feed more than one luminaire on the same switched circuit and are available in 1 amp, 8 amp & 12 amp versions.

Hold-off relays

Hold-off relays are required to monitor the relevant lighting supply circuits such that a failure brings on the emergency luminaires automatically in the event of local supply failure. Non maintained luminaires are connected to a localised sub-circuit hold-off relay fed from a maintained battery system. These luminaires are only energised when the supply to the hold off relay fails. 5, 10, 15 and 20 way sub-circuit monitors (with 12 amp hold-off relay) are available.

Part no.	Description
ELD9600.001	5 way 12 amp hold-off relay
ELD9600.002	10 way 12 amp hold-off relay
ELD9600.003	15 way 12 amp hold-off relay
ELD9600.004	20 way 12 amp hold-off relay

Changeover relays

The basic use of a switched maintained system is to energise the emergency lighting when required by operation of the local switched supply but automatically illuminate in the event of local sub-circuit supply failure (irrespective of the position of the local switch).

SI230 changeover relays are compact and easy to install. When using these changeover relays switched maintained emergency luminaires are energised whenever a local switched supply is present and automatically, when a local sub-circuit failure occurs.

Part no.	Dimensions HWD (mm)	Description
SI230DIM	155 x 43 x 30	230 volt 1.0 amp mains changeover relay
SI230DIM	428 x 110x 45	230 volt 1.0 amp mains changeover relay
ELD9600.010	200 x 130 x 40	230 volt 8 amp mains changeover relay with 2 x 2.5mm ² terminal capacity

Maintained

Do not require sub-circuit monitoring or hold-off relays

Non-maintained

Require a hold-off relay (1 per circuit)

Switched maintained

Require a changeover relay (1 per switched circuit)

