



### ELFD Controller Carrier

The ELFD Controller Carrier provides a mounting platform for up to two SafetyNet Controllers (8851-LC-MT). It can also accommodate a Power Supply Monitor module (8410-NS-PS) which can monitor the health of up to two 8913-PS-AC, four 8914-PS-AC power supplies and the 12V supply to Intrinsically Safe Modules (when these are used). For each Controller there is a serial port connector and a manually operated “Change State” button. The Carrier also provides terminals that are used when earth leakage fault detection is required.

#### 8751-CA-NS

| Product Name                                                                              | ELFD Controller Carrier - Terminals for earth leakage fault detection                                                                                                                               |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lifecycle Status                                                                          | Active                                                                                                                                                                                              |
| Carrier Mounting Modules                                                                  |                                                                                                                                                                                                     |
| SafetyNet Controller (x2)                                                                 | 8851-LC-MT                                                                                                                                                                                          |
| Power Supply Monitor Module                                                               | 8410-NS-PS                                                                                                                                                                                          |
| Electrical Connections                                                                    |                                                                                                                                                                                                     |
| Railbus Connector                                                                         | male out                                                                                                                                                                                            |
| Serial Port Connectors                                                                    | 9-pin, D-type (female) (x2)                                                                                                                                                                         |
| Power Fail Connections                                                                    | screw terminals (x7 pairs)                                                                                                                                                                          |
| Ground Connection                                                                         | M4 screw terminal (x1)                                                                                                                                                                              |
| BFPOV Connection                                                                          | M4 screw terminal (x1)                                                                                                                                                                              |
| Earth Leakage Fault Detection Connections                                                 | screw terminals (1 pair)                                                                                                                                                                            |
| System Power connections (Note: this does not provide power to the SafetyNet Controllers) | 6-Pin (male)                                                                                                                                                                                        |
| Dimensions (W x D) mm                                                                     | 200 x 253 (footprint)                                                                                                                                                                               |
| Height (mm)                                                                               | 28 (top of circuit board) 55 (overall)                                                                                                                                                              |
| Weight (kg)                                                                               | 1.43 (approx.)                                                                                                                                                                                      |
| Mounting Methods                                                                          | flat panel (4 fixings)                                                                                                                                                                              |
| User Controls                                                                             | Two “change state” buttons, one for each SafetyNet Controller, are provided on the carrier. The state change depends upon the controller state before the button is pressed. See below for effects. |
| Master                                                                                    | Change to standby if current standby is healthy                                                                                                                                                     |
| Standby                                                                                   | Change to offline state                                                                                                                                                                             |
| Backup                                                                                    | Re-synchronize and return to standby                                                                                                                                                                |