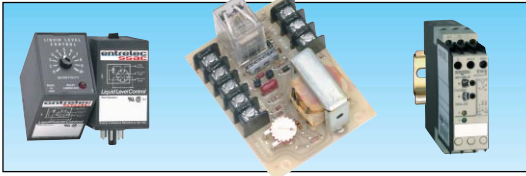


# Other controls 11

## Table of contents

### LIQUID LEVEL CONTROLS



**LIQUID LEVEL CONTROLS & RELAYS**  
Pages 1707-1720



**MOTOR DUPLEXOR**  
Pages 1721,  
1728-1729



**CONTACT PROTECTION RELAY**  
Page 1722

### TOWER & OBSTRUCTION LIGHTING CONTROLS



**BEACON TOWER FLASHERS**  
Pages 1733-1734



**FLASHER & BEACON ALARM RELAYS**  
Pages 1734-1736

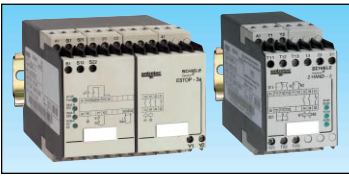


**OBSTRUCTION LAMP ALARM RELAY**  
Page 1736



**PHOTO CONTROL**  
Page 1737

### SAFETY RELAYS



**SAFETY RELAYS**  
Pages 1739-1757



**EMERGENCY STOP PUSHBUTTONS & ASSEMBLIES**  
Pages 1758-1761

### LIQUID LEVEL CONTROLS

- Accessories** ..... 1723-1724
- Alternating relay ..... 1721
- Application notes ..... 1726-1729
- Approvals ..... 1725
- Boiler level controls** ..... 1713-1714
- Conductive liquid level controls** ..... 1710-1720
- Contact protection relay** ..... 1722
- Control electrodes ..... 1723-1724
- Controls, dual probe ..... 1715-1720
- Controls, low level cutoff ..... 1713-1714
- Controls, single probe ..... 1710-1714
- DIN 3, rail mount, level controls** ..... 1710, 1715, 1718-1720
- Drain, pump down controls ..... 1710-1712, 1715-1720
- Duplex relay ..... 1721
- Fill, pump up controls** ... 1710-1714, 1716-1718, 1720
- Liquid level controls/relays** ..... 1708-1720
- Mechanical outlines** ..... 1724
- Motor duplexor** ..... 1721
- PC Board, level controls** ..... 1711, 1713, 1716
- Plug-in base, level controls ..... 1712, 1714, 1717
- Probes ..... 1723-1724
- Pump down, drain controls ..... 1710-1712, 1715-1720
- Pump up, fill controls ..... 1710-1714, 1716-1718, 1720

- Resistance sensing controls** ..... 1710-1720
- Selection guide** ..... 1708-1709
- Standards ..... 1725
- Two-pump** alternating relay ..... 1721
- Two-stage control relay ..... 1721

### TOWER & OBSTRUCTION LIGHTING CONTROLS

- Auxiliary modules** ..... 1733
- Beacon tower flasher** ..... 1733
- Dusk-to-dawn photo control** ..... 1737
- Flasher and beacon alarm relays** ..... 1734-1736
- Flasher, beacon lamps ..... 1733
- Lamp alarm relay, universal** ..... 1735
- Obstruction lamp alarm relay** ..... 1736
- Photo control, dusk-to-dawn** ..... 1737
- Selection guide** ..... 1732
- Tower controls, introduction** ..... 1730

### SAFETY RELAYS

- Contact blocks, safety relays** ..... 1760
- Contact extension, output ..... 1756-1757
- Cross circuit safety, description ..... 1742
- Delay on release relay** ..... 1751-1752

### Emergency stop monitoring

- 2 output ..... 1743
- 3 output ..... 1744
- 4 output ..... 1745-1746
- 6 output ..... 1747-1748
- 9 output ..... 1749-1750
- Fault detection safety** ..... 1742
- Housing, molded, safety relay,**  
2-hand control ..... 1761
- Inductive load derating** ..... 1741
- Lampholders, safety relays** ..... 1760-1761
- Limit switch monitoring** ..... 1753-1754
- Mechanical outlines** ..... 1741
- Operating full load rating curves** ..... 1741
- Overview ..... 1740-1741
- Protective guard**  
limit switch monitoring ..... 1753-1754
- Pushbuttons, emergency stop** ..... 1758-1759
- Pushbuttons, round ..... 1759
- Pushbutton station, safety relay,  
2-hand control ..... 1761
- 2-hand control monitoring** ..... 1755