



LV1



LP3



SN1



PS3S



MRT6...



MRT5...



MRT20...

The Electro 11 pin plug-in range of control and timing devices are to be installed into a standard 11 pin base making installation easy and convenient.

| type | function | description | contact |
|------|----------|-------------|---------|
|------|----------|-------------|---------|

**Level controllers** *(fail safe control and monitoring of high and / or low levels)*

Level control unit of which can be configured for FILLING or EMPTYING. The unit can be used as a two probe system for alarm purposes or a three probe system to control HIGH and LOW levels of a reservoir. Up to four LV1 can be utilized in the same reservoir by connecting all commons (*pin7*). The sensitivity of the unit can also be adjusted.

|              |                   |                                |          |
|--------------|-------------------|--------------------------------|----------|
| <b>LV1*</b>  | emptying/ filling | liquid conductive controller   | 10A SPDT |
| <b>LVC1*</b> | emptying/ filling | DC capacitive probe controller | 10A SPDT |

\* Voltage: 12 VAC, 24 VAC, 48 VAC, 110 VAC, 230 VAC, 400 VAC, 525 VAC  
12 VDC, 24 VDC, 48 VDC (other voltages available on request)

**Pump sequence relay**

Alternating relays are designed to minimize pump and motor wear by equalizing run time between parallel components in a multi-pump system. These relays are controlled by an external control switch.

- Three normally open pressure switch inputs (*voltage free*)
- Three normally open pump outputs
- Permanent memory for next pump activated after power off

|              |             |            |                       |             |
|--------------|-------------|------------|-----------------------|-------------|
| <b>PSR1*</b> |             | 3 circuits | pump sequencing relay | 3 x 5A SPDT |
| <b>PSR4</b>  | only 12/24V | 4 circuits | pump sequencing relay | 4 x 5A SPDT |

**Pump protection relay**

Pump protection relay capable of protecting a submersible pump against all major power line faults.

- Over / Under Voltage protection with phase rotation on 3 phase units
- Over / Under Current protection
- Running dry restart delay / Over current retries

**Function:** Voltage monitoring  
Current monitoring  
Security switch trip  
Star / delta connection

|             |                                      |                                 |          |
|-------------|--------------------------------------|---------------------------------|----------|
| <b>LP1*</b> | 6 hours ( <i>others on request</i> ) | single ph pump protection relay | 10A SPDT |
| <b>LP2*</b> | 1-2-4-8 hours                        | single ph pump protection relay | 10A SPDT |
| <b>LP3*</b> | 1-2-4-8 hours                        | three ph pump protection relay  | 10A SPDT |

\* Voltage: 110 VAC, 230 VAC, 400 VAC, 525 VAC

**Accessories**

|                |  |
|----------------|--|
| <b>SN1</b>     | single line insulated stainless steel probe for conductive liquids |
| <b>PS3S</b>    | 3 electrode holder ( <i>mounts through 50.5 mm hole</i> )          |
| <b>P1000S</b>  | electrodes for PS3S holder ( <i>1 meter length</i> )               |
| <b>FS03-3P</b> | electrode spacer disc ( <i>for extended probe length</i> )         |
| <b>PXL</b>     | extension locknut ( <i>each</i> )                                  |

**Printed circuit terminals**

Two and three way clip on to one another for any terminal combination. EN60998 UL1059 IMQ, VDE µL approved.

| type                  | pitch | No. ways                 | rated current | wire size                 | colour |
|-----------------------|-------|--------------------------|---------------|---------------------------|--------|
| <b>MRT5P5/2VE</b>     | 5.0   | 2                        | 24A           | 0.2 - 2.5 mm <sup>2</sup> | green  |
| <b>MRT5P5/3VE</b>     | 5.0   | 3                        | 24A           | 0.2 - 2.5 mm <sup>2</sup> | green  |
| <b>MRT6P5/2VE</b>     | 5.0   | 4 ( <i>double deck</i> ) | 24A           | 0.2 - 2.5 mm <sup>2</sup> | green  |
| <b>MRT6P5/3VE</b>     | 5.0   | 6 ( <i>double deck</i> ) | 24A           | 0.2 - 2.5 mm <sup>2</sup> | green  |
| <b>MRT20P6.35/2GR</b> | 6.35  | 2                        | 32A           | 0.2 - 6.0 mm <sup>2</sup> | grey   |
| <b>MRT20P6.35/3GR</b> | 6.35  | 3                        | 32A           | 0.2 - 6.0 mm <sup>2</sup> | grey   |