

- > **MLS2**
- > **Timers**
- > **DIN rail mount**
- > **17.5 mm - 1 Solid State Relay 0.7A**

- > Multi-function or mono-function
- > Multi-range
- > Multi-voltage
- > Screw or spring terminals
- > LED status indicator (relay version)
- > Possibility of external load connection in parallel to the control input
- > 3-wire PNP sensor compatible



| Specifications |               |             |                |                 |                |          |
|----------------|---------------|-------------|----------------|-----------------|----------------|----------|
| Functions      | Timing        | Output      | Nominal rating | Connections     | Supply voltage | Code     |
| L - Li         | 0,1 s → 100 h | Solid state | 0,7 A          | Screw terminals | 24 → 240 V AC  | 88827054 |

| Timing                                       |                                                  |
|----------------------------------------------|--------------------------------------------------|
| Timing ranges (7 ranges)                     | 1 s - 10 s - 1 min - 10 min - 1 h - 10 h - 100 h |
| Repetition accuracy with constant parameters | ± 0.5% (IEC/EN 61812-1)                          |
| Drift Temperature                            | ± 0,05% / °C                                     |
| Drift Voltage                                | ± 0,2% / V                                       |
| Display accuracy according to IEC/EN 61812-1 | ± 10% / 25 °C                                    |
| Immunity from micro power cuts : typical     | < 10 ms                                          |

| Supply                     |                      |
|----------------------------|----------------------|
| Multi-voltage power supply | Depending on version |
| Frequency (Hz)             | 50 / 60              |
| Operating factor           | 100%                 |

| Output specification                                     |                                                                                                               |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Rated power                                              | 0,7 A AC / DC<br>20 °C (0,5 A UL)                                                                             |
| Derating                                                 | 5 mA/ °C                                                                                                      |
| Maximum admissible current                               | 20 A ≤ 10 ms                                                                                                  |
| Minimum breaking current                                 | 10 mA                                                                                                         |
| Leakage current                                          | < 5 mA                                                                                                        |
| Voltage breaking capacity                                | 250 VAC / DC                                                                                                  |
| Maximum voltage drop at terminals                        | 3 wire 4V<br>2 wire 8V                                                                                        |
| Electrical life (operations)                             | 10 <sup>8</sup>                                                                                               |
| Breakdown voltage acc. to IEC/EN 60664-1, IEC/EN 60255-5 | 2.5 kV to 1 mA / 1 min                                                                                        |
| Input type                                               | Volt-free contact<br>3-wire PNP output control option residual voltage : 0.4V whatever the timer power supply |

| General characteristics                                                                         |                                                                                                                       |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Conformity to standards                                                                         | IEC/EN 61812-1<br>IEC/EN 61000-6-1<br>IEC/EN 61000-6-2<br>IEC/EN 61000-6-3<br>IEC/EN 61000-6-4                        |
| Certifications                                                                                  | CE, UL, cUL, CSA, GL                                                                                                  |
| Temperature limits use (°C)                                                                     | -20 →+60                                                                                                              |
| Temperature limits stored (°C)                                                                  | -30 →+60                                                                                                              |
| Installation category<br>(acc. to IEC/EN 60664-1)                                               | Voltage surge category III                                                                                            |
| Creepage distance and clearance acc. to IEC/EN 60664-1                                          | 4 kV / 3 mm                                                                                                           |
| Protection (IEC/EN 60529)                                                                       | IP20                                                                                                                  |
|                                                                                                 | IP40                                                                                                                  |
| Degree of protection acc. to IEC/EN 60529 Front face                                            | IP50                                                                                                                  |
| Vibration resistance<br>acc. to IEC/EN 60068-2-6                                                | 20 m/s <sup>2</sup> 10 Hz →150 Hz                                                                                     |
| Relative humidity no condensation acc. to IEC/EN 60068-2-30                                     | 93 % non-condensing                                                                                                   |
| Electromagnetic compatibility - Immunity to electrostatic discharges<br>acc to IEC/EN 61000-4-2 | Level III (Air 8 kV / Contact 6 kV)                                                                                   |
| Immunity to radiated, radio-frequency, electromagnetic field acc.<br>IEC/EN 61000-4-3           | Level I (1 V/m : 2,0 G Hz →2,7 G Hz)<br>Level II (3 V/m : 1,4 G Hz →2,0 G Hz)<br>Level III (10 V/m : 80 M Hz →1 G Hz) |
| Immunity to rapid transient bursts acc. to IEC/EN 61000-4-4                                     | Level III (direct 2 kV / Capacitive coupling clamp 1 kV)                                                              |
| Immunity to shock waves on power supply acc. to IEC/EN 61000-4-5                                | Level III (2 kV / common mode 2 kV/residual current mode 1 kV)                                                        |
| Immunity to radio frequency in common mode acc. to<br>IEC/EN 61000-4-6                          | Level III (10V rms : 0.15 M Hz to 80 M Hz)                                                                            |
| Immunity to voltage dips and breaks acc. to IEC/EN 61000-4-11                                   | 0 % residual voltage, 1 cycle<br>70 % residual voltage, 25/30 cycles                                                  |
| Mains-borne and radiated emissions acc. to EN 55022 (CISPR22),<br>EN55011 (CISPR11)             | Class B                                                                                                               |
| Fixing : Symmetrical DIN rail                                                                   | 35 mm                                                                                                                 |
| Terminal capacity Single-wire without ferrule                                                   | 1 x 0,5 →3,3 mm <sup>2</sup> (AWG 20 →AWG 12)<br>2 x 0,5 →2,5 mm <sup>2</sup> (AWG 20 →AWG 14)                        |
| Terminal capacity Multi-wire with ferrule                                                       | 1 x 0,5 →2,5 mm <sup>2</sup> (AWG 20 →AWG 14)<br>2 x 0,5 →1,5 mm <sup>2</sup> (AWG 20 →AWG 16)                        |
| Housing material                                                                                | Self-extinguishing                                                                                                    |
| Shock test IEC/EN 60068-2-27                                                                    | 15 g - 11 ms                                                                                                          |
| Short interruption on power line acc to IEC/EN 61000-4-11                                       | 0 % residual voltage, 250/300 cycles                                                                                  |

| Dimensions                                               |  |
|----------------------------------------------------------|--|
|                                                          |  |
| Curves                                                   |  |
| Function L<br>Double temporisation 1 relay               |  |
| Function Li<br>Asymmetrical recycler Pulse start 1 relay |  |
| Connections                                              |  |
| Solid state output                                       |  |
|                                                          |  |