

Electronic multifunction counters with preselection

→ Up counters / Down counters - 48 x 48 - CTR48

- Counter, Tachometer, Chronometer, Multi-totalizer, Batch counter, Preselection totalizer
- Maximum input frequency 40 kHz
- Simple parameter setting, configuration using text menus
- Easy modification of presets
- Scaling factor
- 5 A changeover relay and solid state output
- Removable connectors
- Backlit LCD display (orange) : 2 lines, 6 digits or multicoloured display (green-red)
- IP 65 sealed panel
- Option of locking the keypad, completely or partially (preset, programming)
- Accessories for 72 x 72 or 55 x 55 cut-out, DIN rail adaptor



Part numbers

| Type | Functions | Preset | Voltages | Output | Code |
|--|--|--------|-----------------------------------|---|----------|
| Orange backlight LCD display | Counter, Tachometer, Chronometer, Preselection multi-totalizer | 1 | 10 → 30 V $\overline{\text{---}}$ | 1 changeover relay, 1 solid state | 87621111 |
| | Counter, Tachometer, Chronometer, Preselection multi-totalizer | 1 | 24 V \sim | 1 changeover relay, 1 solid state | 87621112 |
| | Counter, Tachometer, Chronometer, Preselection multi-totalizer | 1 | 90 → 260 V \sim | 1 changeover relay, 1 solid state | 87621115 |
| | Counter, Tachometer, Chronometer, Multi-totalizer, Batch counter, Preselection totalizer | 2 | 10 → 30 V $\overline{\text{---}}$ | 1 changeover relay, 1 NO relay, 2 solid state | 87621121 |
| | Counter, Tachometer, Chronometer, Multi-totalizer, Batch counter, Preselection totalizer | 2 | 24 V \sim | 1 changeover relay, 1 NO relay, 2 solid state | 87621122 |
| Multicoloured LCD display (green-red) | Counter, Tachometer, Chronometer, Multi-totalizer, Batch counter, Preselection totalizer | 2 | 90 → 260 V \sim | 1 changeover relay, 1 NO relay, 2 solid state | 87621125 |
| | Counter, Tachometer, Chronometer, Preselection multi-totalizer | 1 | 10 → 30 V $\overline{\text{---}}$ | 1 changeover relay, 1 solid state | 87621211 |
| | Counter, Tachometer, Chronometer, Preselection multi-totalizer | 1 | 24 V \sim | 1 changeover relay, 1 solid state | 87621212 |
| | Counter, Tachometer, Chronometer, Preselection multi-totalizer | 1 | 90 → 260 V \sim | 1 changeover relay, 1 solid state | 87621215 |
| | Counter, Tachometer, Chronometer, Multi-totalizer, Batch counter, Preselection totalizer | 2 | 10 → 30 V $\overline{\text{---}}$ | 1 changeover relay, 1 NO relay, 2 solid state | 87621221 |
| Counter, Tachometer, Chronometer, Multi-totalizer, Batch counter, Preselection totalizer | Counter, Tachometer, Chronometer, Multi-totalizer, Batch counter, Preselection totalizer | 2 | 24 V \sim | 1 changeover relay, 1 NO relay, 2 solid state | 87621222 |
| | Counter, Tachometer, Chronometer, Multi-totalizer, Batch counter, Preselection totalizer | 2 | 90 → 260 V \sim | 1 changeover relay, 1 NO relay, 2 solid state | 87621225 |

Accessories

| Description | Code |
|--------------------------------|----------|
| Adaptor for 72 x 72 mm cut-out | 26546842 |
| Adaptor for 55 x 55 mm cut-out | 26546846 |
| DIN rail adaptor | 26546841 |

General characteristics

| Environmental characteristics | |
|-------------------------------------|---|
| Supply | 10 → 30 V $\overline{\text{---}}$ / 24 V \sim / 90 → 260 V \sim |
| Relative humidity (no condensation) | EN 60068-2-30 40/93% RLF |
| Altitude | 0 < 2000 m |
| Certifications | UL - cULus (pending) - CE |
| Vibration resistance in 3 axes | 10-55 Hz / 1 min / XYZ EN 60068-2-6: 30 min. in each direction |
| Connection by screw terminals | Removable |
| Protection | Conforming to standard EN 60529 IP65 for panel / IP20 for connections |
| Front panel watertight seal | ✓ |
| Temperature limits use (°C) | -20 → +65 |
| Temperature limits stored (°C) | -25 → +75 |
| Weight (g) | 150 $\overline{\text{---}}$ version 250 \sim version |

General characteristics

| | |
|--|---|
| Reset to zero or to preset | On panel: if not locked during programming Electrical: automatic, voltage or solid state (NPN or PNP depending on programming) |
| Minimum pulse time | Impulse counter: < 15 ms Chronometer: 500 μ s |
| Option to protect against reset from front panel | ✓ |
| Scale factor (each input pulse is multiplied by this figure) | 00.0001 → 99.9999 |
| Scaling factor (each input impulse is divided by this value) | 01.0000 → 99.9999 |
| Decimal point selectable for ease of reading | 0 0.0 0.00 0.000 0.0000 0.00000 |
| Sensor supply version \sim | 24 V $\overline{\text{---}}$ -20/+15% 50 mA |
| Programming and current value backed up via EEPROM memory | ✓ |
| | Service life 10 years |

Operating characteristics

| | |
|--------------------|---|
| Functions | Preselection counter, Tachometer, Chronometer, Multi-totalizer, Batch counters, Totalizer |
| Number of presets | 1 or 2 |
| Display | LCD with orange backlighting/Multicoloured LCD (green-red) |
| Height digits (mm) | LCD 9 |
| Display details | - 999 999 → 999 999 |

Input characteristics

| | |
|-------------|---|
| Inputs | 2 counter inputs 1 reset input, 1 gate input |
| Input modes | Dir: Directional AS: up/dn AA: up/up PP: phase PP2: phase 2 PP4: phase 4 |
| Input type | Voltage or solid state |
| High level | 8 V $\overline{\text{---}}$ → 30 V $\overline{\text{---}}$ |
| Low level | 0 → 2 V $\overline{\text{---}}$ |

Solid state output characteristics

| | |
|-----------------|--|
| Maximum current | 30 mA |
| Max. voltage | 10 → 30 V $\overline{\text{---}}$ for the $\overline{\text{---}}$ version 24 V $\overline{\text{---}}$ -20/+15% |

Relay output characteristics

| | |
|------------------------------------|---|
| Changeover relay | ✓ |
| NO contact | Depending on version |
| Maximum current | 5 A |
| Minimum current | 10 mA |
| Maximum voltage | 30 V $\overline{\text{---}}$ / 250 V \sim |
| Min. voltage | 5 V \sim |
| Response time | < 13 ms |
| Mechanical life (operations) | 20 x 10 ⁶ |
| Number of operations to 5 A | 5 x 10 ⁴ |
| Output modes: maintained or pulsed | 0.01 → 99.99 s |