## Programmable Counter CT38

♦ **Low cost**
♦ **4-digit LED display for up to 9999 units**
♦ **Easy programming**
♦ **Universal optically isolated counting input**
♦ **6 modes of operation of the counter and the relay output**
♦ **Programmable input multiplying coefficient**
♦ **48x48 mm DIN-sized front panel**

CT38 is a single-channel programmable counter with simplified programming. The device has a 4-digit display and can count up to 9999 input pulses. CT38 may work as up or down counter and has a relay output for switching on and off electrical actuators. Relay output action at reaching the preset counter value is user programmable. CT38 offers 4 counting modes and 2 output action modes. The universal, optically isolated input allows connection of both mechanical contacts and electronic sensors. A software preliminary multiplying coefficient enables counting several units at each pulse. With its compact size, easy programming, and attractive price, the CT38 counter is widely used in machine manufacturing and various other areas.



## Technical specifications

### Inputs

| | |
|---|---|
| *Counting input* | mechanical contact (NO) or electronic (from PNP / NPN sensor) |
| *- type selection* | not needed (automatic) |
| *Maximum input frequency* | 500 Hz |
| *Input filter (fixed)* | for input contact bouncing |
| *Prescaling multiplying coefficient* | 1...999, programmable |
| *Input isolation* | optical, 750 VAC |

### Modes

| | |
|---|---|
| *Counting modes* | 4 [1] |
| *Output action modes* | 2 [2] |
| *Counting range* | 0...9999 |
| *Programming* | through keyboard |

### Outputs *(up to 2 relay outputs)*

| | |
|---|---|
| *Relay electromechanical* | 5A/250V w/ NO/NC contact |
| *Solid state relay [3]* | 1A/250VAC |
| *MOS gate [3]* | 0.1A/60V, optically isolated |
| *Output for external SSR* | 12 V, 30 mA |
| *Relay action* | according to the mode |
| *Output pulse duration* | 0.1...9.9 s, programmable |

### Indication and controls

| | |
|---|---|
| *Digital display* | 4 LED indicators, 10 mm |
| *LEDs* | 3 LEDs for output and modes |
| *Keyboard* | 6 membrane keys |

### Power supply

| | |
|---|---|
| *Mains supply voltage* | 230 VAC or 115 VAC |
| *Non-isolated low voltage* | 12 VDC |
| *Consumption* | max. 2 VA |

### Operating conditions

| | |
|---|---|
| *Ambient temperature* | -10...65 °C |
| *Ambient humidity* | 0...85 %RH |
| *Storage temperature* | -20...65 °C |
| *Storage humidity* | 0...95 %RH, non-condensing |

### Design and materials

| | |
|---|---|
| *Case material* | plastic |
| *Mounting* | in 45x45 mm panel cut-out or on 35 mm DIN rail |
| *Wiring* | socket OCTAL [4] |
| *Dimensions* | 48x48(front)x92 mm |
| *Mounting depth* | max. 103 mm (w/ socket) |
| *Weight* | max. 250 g |
| *Protection, front/terminals* | IP40 / IP20 |

[1] Counting up or down; counting with or without automatic reset at reaching preset counter value
[2] Output activates and retains the new state with counter reaching preset value; output activates for a short time with counter reaching preset value
[3] Ask for availability!
[4] Ordered separately (see 'Accessories')

## Ordering code   CT38 - G1.G5

| Code | Feature or option | Code values |
|---|---|---|
| **G1** | Power supply | **A** - 230 VAC, **B** - 115 VAC, **D** - 12 VDC |
| **G5** | Relay output | **C** - relay NO/NC, **D** - SSR [3], **J** - for external SSR, **M** - isolated MOS gate [3] |