Analog Timer with Display CT04

♦ **Low cost**
♦ **4-digit LED display**
♦ **Time setting via push-wheel switch**
♦ **Improved precision**
♦ **ON and OFF delay**
♦ **Controls main and auxiliary relay**
♦ **48x48 mm DIN-sized front panel**
♦ **Panel or rail mounting**

With its 48x48 mm DIN-sized front panel, the CT04 timer is especially suitable for building in machines and installations where compact size is important. A 4-digit LED display indicates the current time, and the delay is set by push-on wheels (BCD coders), which greatly simplifies the setting and improves accuracy. Equipped with 2 relay outputs – main and auxiliary relay – CT04 can be used for timing control (switching on and off) of various electrical actuators. The main relay is time operated, and the auxiliary relay is activated at power-on or simultaneously with the main relay. In spite of its simple design and low price, CT04 has all main functions of a modern electronic timer and can be widely used in industry and consumer goods.

Technical specifications

Times and modes

Range	0.0...99.9 or 0...999
Time unit	seconds or minutes
Mode of operation	on-delay or off-delay
Timing start	at power-on

Outputs
(up to 2 - main and auxiliary)

Relay electromechanical	5A/250V w/ NO/NC contact
Solid state relay [(1)]	1A/250VAC
MOS gate	0.1A/60V, optically isolated
Transistor gate [(2)]	open collector, 40mA/40V
Output for external SSR	12/24 V, 30 mA
Main (timer) relay	time operated
Auxiliary relay	activates at power-on or copies main relay

Accuracy

Measurement error	0.05% from span
Temperature drift	insignificant

Indication and controls

Digital display	4 LED indicators, 9 mm
LEDs	2 LEDs for relay state and time unit
Push-wheel switch	for easy time setting

[(1)] Ask for availability!
[(2)] ONLY with isolated power supply!
[(3)] Ordered separately (see 'Accessories')
[(4)] ONLY with auxiliary relay

Power supply

Mains supply voltage	230 VAC or 115 VAC
Isolated low voltage	24 VDC
Non-isolated low voltage	24 VAC or 24 VDC
Consumption	max. 2 VA

Operating conditions

Operating temperature	-10...65 °C
Operating 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 [(3)] OCTAL or UNDECAL [(4)]
Dimensions	48x48(front)x95 mm
Mounting depth	max. 103 mm (w/ socket)
Weight	max. 250 g
Protection, front/terminals	IP40 / IP20

Ordering code   CT04 - G1.G5G5.G6.G8

Code	Feature or option	Code values
G1	Power supply	**A** - 230 VAC, **B** - 115 VAC, **D** - 24 VDC, **E** - 24 VAC, **Q** - 24 VDC, isolated
G5	Relay output	**X** - none [(5)], **C** - relay NO/NC, **D** - SSR [(1)], **E** - open collector NPN [(2)], **J** - for external SSR, **M** - isolated MOS gate
G6	Time range	**LS** - 0...99.9 s, **HS** - 0...999 s, **LM** - 0...99.9 min, **HM** - 0...999 min
G8	Operating mode	**D** - delay ON, **E** - delay OFF

[(5)] A main relay MUST be installed!