

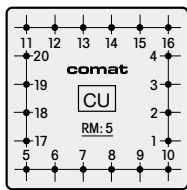
CU23 Timer Module

SWISS MADE BY COMAT

Universal Timer Module for Print Board Mounting

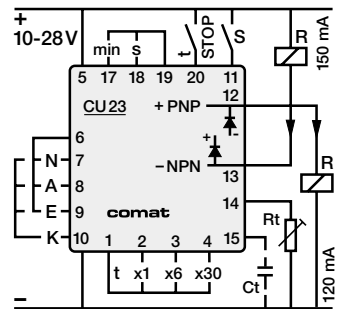
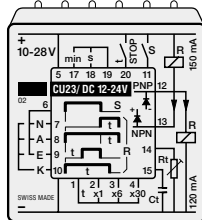
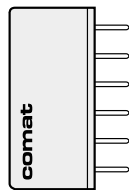
- large time range 6ms...8 (16) hrs
- digital CMOS time circuit with RC oscillator and subsequent frequency divider
- 5 programmable timing modes
- (+) triggering (PNP)
- separate time stop input (for use in all timing functions)

- outputs for direct relay connection through integrated suppression diodes
- 1 output (+) switching (PNP) 120 mA
- 1 output (-) switching (NPN) 150 mA (simultaneously usable)
- large voltage range DC 10...28V
- small dimensions 32x32x15mm depth
- hermetically sealed



No pin on 16

32x32x15mm depth



View of connections

Time ranges

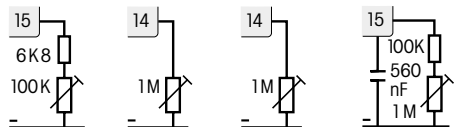
Examples for external wiring

Time range		sec		min	
		18	19	17	19
Partial range	x1	1	2	1	2
	x6	1	3	1	3
	x30	1	4	1	4

series resistor Rv
extender capacitor Ct
adjustable resistor Rt

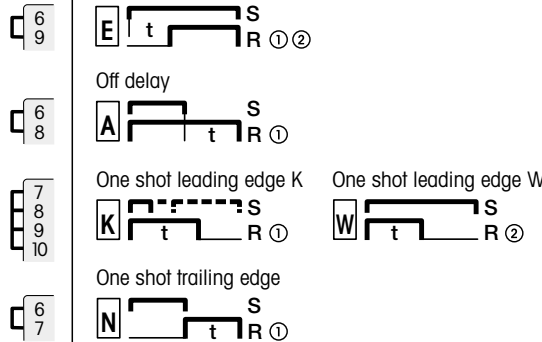
CU23

sec		min	
18	19	17	19
0,01-3s	0,05-30s	0,05-30m	1-300min
0,01-0,1s	0,05-1s	0,05-1min	1-10min
0,06-0,6s	0,3-6s	0,3-6min	6-60min
0,3-3s	1,5-30s	1,5-30min	30-300min



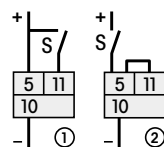
Timing functions

Programming



Time stop (t_{STOP}) = Time lapse interrupted

Triggering (O)



Supply

operating voltage DC 10...28V
current consumption ≤ 15 mA (without load)

Triggering (S)

minimum triggering time 1,5 ms
reset time ≤ 5 ms
S load / t_{STOP} ≤ 3 / 1,5 mA // 24V
res. to parallel load on S (11) max. 100V / 10 ms / 1Hz

Time Adjustment

time resistor Rt on 14/15 0/3k3...1(2) MΩ, ≥ 0,1W
expansion capacitor Ct 0...1 μF, ≥ 25V (foil type)

Time Accuracy

repeat accuracy ≤ 0,5% / ≤ 2 ms
voltage stability ≤ 0,05% / V, (≤ 1%)
temperature stability ≤ 0,1% / K, (≤ 1,5%)
effect of wire Rt + 1,5% / nF

Output Circuit (R)

output 1 (12) PNP transistor 120 mA
output 2 (13) NPN transistor 150 mA
leaking current ≤ 50 μA

Ambient Conditions

ambient temperature range -25° C...+60° C
storage temperature range -40° C...+85° C
climatic class DIN 40 040 HUE
vibration / impact resistance IEC 571 / >>20 g

General

case material Noryl SE1 (UL 94V-1)
protection / weight IP 64 / 20 gr.

Accessories:

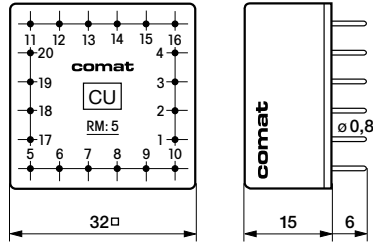
external potentiometer (Rt) type SP-01/100K
type SP-01/1M
other values on request

Example of order:

1 timer module CU23/DC 12-24V

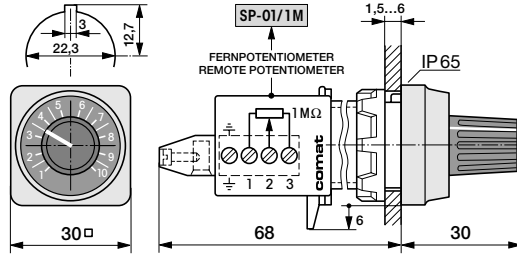
CU23

Scale approx 3/4



External potentiometer **SP-01/100K**
(protection IP65)

SP-01/1M
Other values
on request



Exemple of order:

1 external potentiometer SP-01/100K

KÜHN

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