

Electromechanical totalizing counter CWA

Method of operation

The rugged Anker escape mechanism advances the digit drums two half steps per pulse.

In spite of low current consumption great value has been placed upon an extremely solid construction. The mechanical life is 10 million pulses. As with traditional SODECO totalizing counters the 2 × 4 mm digits are easy to read.

Applications

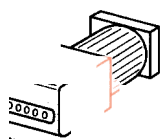
The totalizing counter CWA is suitable for all purposes and particularly, thanks to the low power consumption, for the following applications:

- Devices for measuring quantities of heat (calorimetry)
- Devices for fluid-flow measuring (e. g. metering water flow)
- Battery driven equipment independent of mains
- Automatic service equipment
- Alarm and signal systems

Technical data

General data

Count	
Counting capacity	999.999
Counting direction	up (direction of rotation from bottom to top)
Counting frequency max.	10 i/s
Display	6 digit-drums, white figures on black background, 2 × 4 mm (other figures colours on request)
Reset	none
	10 million counting impulses
	- Plug in to printed circuit board in 5 different versions (see Summary of different versions)
	- Surface mounting with fixing nut
	- Flush mounting with snap-in clamps
	Mounting in any position
Connections	- Soldering lugs (CWA 060, CWA 064, CWA 065, CWA 066, CWA 067)
	- Tags (2.8 × 0.5 mm) for push-on connectors or soldering (CWA 061, CWA 062)
Ambient temperature	Operation: -10 °C to +55 °C In store: -25 °C to +80 °C
Case material	Thermoplastic PBTB, 20 % glass ball reinforcement, white-grey Washable execution (after machine soldering) on request
Vibration strength	operational reliability: 5 g at axes x and y, 2 g at axes z
	according to IEC 68-2-6, test FC in 3 planes at 10 ... 500 Hz



Protection class (front)	IP 40 according to DIN 40050
Weight	Approx. 60 g

Electrical data

Supply voltage ¹⁾	2,75 V ⁻³⁾	4,5 V ⁻	6 V ⁻	9 V ⁻	12 V ⁻	24 V ⁻
Solenoid resistance ²⁾	76 Ω	202 Ω	360 Ω	810 Ω	1440 Ω	5760 Ω
Power consumption	100 mW by nominal voltage and 20 °C					

Impulse data	Impulse length min. 35 ms Impulse interval min. 50 ms ⁴⁾ Energy consumption per impulse typically 2 mJ
Duty cycle	100 %

Designation for ordering

Type + operating voltage

1) Voltage tolerance: ±10 %
Permissible residual ripple: max. 48 %
Other supply voltages upon request (up to max. 24 VDC)

2) Tolerance: ±8 %
3) Suitable for lithium batteries
4) Min. 70 ms impulse interval, when using spark suppressor diode

CWA

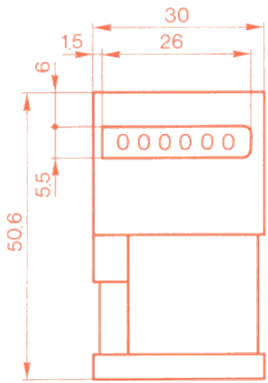
Summary of different versions

Types	Mounting method Fastening	Drill plan for board ● Electrical connections ○ Fixing stud	Connections
<p>CWA 060</p> 	<p>Plug in to circuit board</p> <p>Soldering</p>		soldering lug
<p>CWA 064 CWA 065 CWA 066</p> 	<p>Plug in to circuit board</p> <p>Soldering</p>		soldering lug
<p>CWA 067</p> 	<p>Plug in to circuit board</p> <p>Soldering</p>		soldering lug
<p>CWA 061</p> 	<p>Surface mounting</p> <p>Fixing with M4 nut</p>		Tags 2.8 × 0.5 mm
<p>CWA 062</p> 	<p>Flush mounting</p> <p>Fastening by snap-in clamps</p>		Tags 2.8 × 0.5 mm

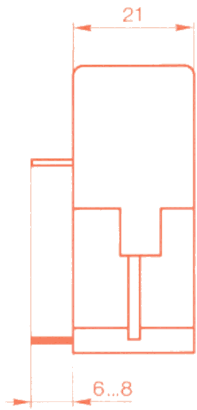
SODECO-SAIA AG
 A member of the Group Landis & Gyr
 CH-3280 Murten Switzerland
 Industrial Components
 and Controllers

Dimension drawings

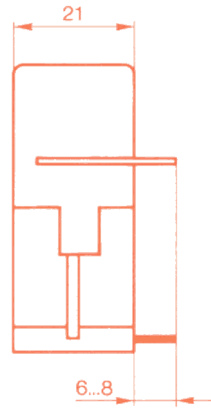
CWA 066



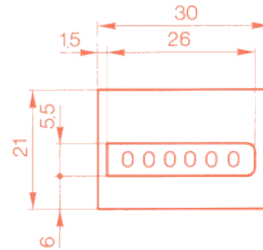
CWA 065
CWA 066



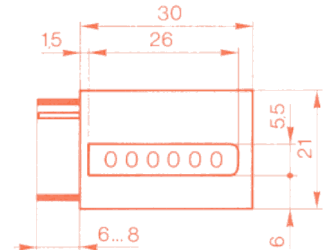
CWA 064



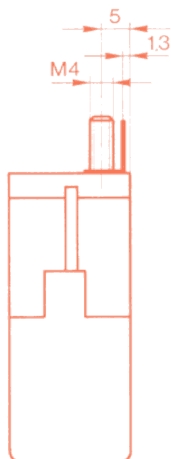
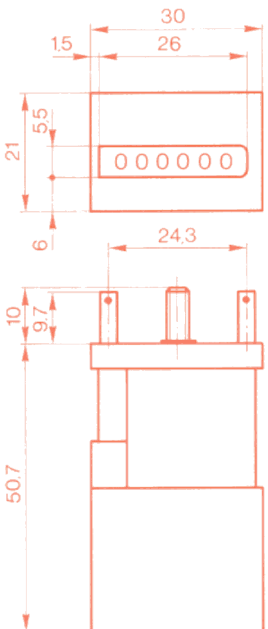
CWA 060
CWA 064
CWA 065



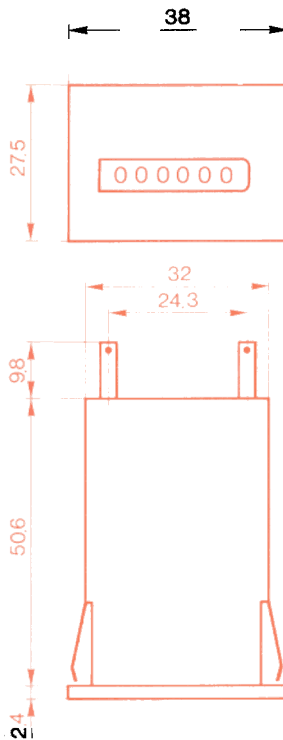
CWA 067



CWA 061



CWA 062



Panel cut out

