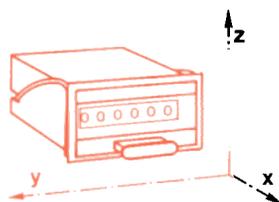


Electromechanical totalizing counters CNG



Version with key-operated manual reset



Version with transparent label-holder (label size: 6 x 45 mm)

General data

Count

Counting capacity	999,999 or 99,999,999
Counting direction	up
Counting frequency max.	20i/s (DC) or 10i/s (AC)
Value per impulse	1:1. Special: 2:1, 3:1, 4:1, 5:1, for 6-digit counters only: 25:1, counting of dozens

Display

digit-drums, white figures on black background, 2 x 4 mm
 special: with fixed decimal point .9, .99, .999
 with transparent label-holder above display
 with symbols, units, static figures etc. (on request)
 other figure colours (on request)

Reset

to zero; none, manual, electrical or manual and electrical
 special: manual reset with key (unintentional reset prohibited)

Life expectancy

Count: 100 million impulses
 Reset: 2 million electrical reset operations

Mounting

flush-mounting, fixing with clamping spring or front frame and screws, in any mounting position (see page 27 for dimension drawings)

Connections

screw terminals (M3, for wires from min. 0.75mm to max. 2 x 1.5mm) in combination with tags (2.8 x 0.8 mm) for push-on connectors or for soldering

Ambient temperature

operation: -10°C to +50°C

Climatic conditions

climate G in conformity with DIN 40040

Vibration strength

operational reliability: 5g at axes y and z, 2g at axis x, in conformity with IEC 68-2-6, test FC in 3 planes at 10...500Hz

Protection class (front)

IP40 in conformity with DIN 40050

Weight

110g without reset, 120g with manual reset, 165g with electrical reset

Electrical data

Supply voltage

DC: 6VDC, 12VDC, 24VDC, 48VDC, 110VDC, 220VDC;
 residual ripple max. 48%; voltage tolerance -15%/+10%
 AC: 24VAC, 100...115VAC, 220...240VAC; 50/60Hz;
 voltage tolerance -15%/+10%
 Other supply voltages on request

Power consumption

Count: 3W (DC) resp. 3.5VA (AC)
 Reset: 8W (DC) resp. 10VA (AC)

Impulse generator types

contacts, electronic sensors NPN/PNP
 (SAIA® Proximity Switches see page 31)

Impulse data

	Count 20 i/s (DC)	10 i/s (AC)	Reset
Impulse length	min. 25 ms	min. 50 ms	min. 200ms
Impulse interval	min. 25 ms	min. 50 ms	min. 100ms

Note: Count and reset mechanisms are not to be simultaneously actuated. No mechanical damage will ensue but the units digit-drum can fall between two places necessitating a reset operation under required conditions.

Duty cycle

Count: 100%. Reset: 50%, max. 5 min

Insulation voltage

1.5kVAC (6...48V) resp. 2.5kVAC (100...240V)
 in conformity with VDE 435

Coil resistance (DC)

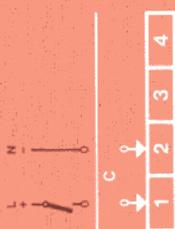
Supply voltage	6VDC	12VDC	24VDC	48VDC	110VDC	220VDC
Count	12Ω	48Ω	190Ω	750Ω	4000Ω	16000Ω
Reset	4.7Ω	20Ω	82Ω	330Ω	1600Ω	6800Ω

CNG

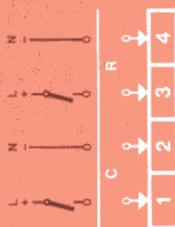
Ordering details

Connection diagrams

no reset or with manual reset

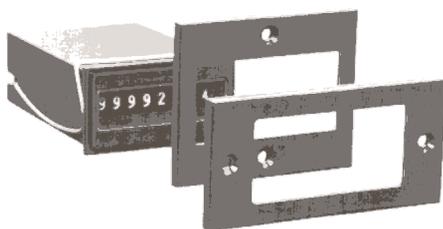


with electrical or manual and electrical reset



Important:

To provide protection for the impulse generator (count and reset), a spark suppression should be provided with direct current supply (see page 30)



Fixing by clamping spring or front frame (two versions) and screws

Type of reset

- 0 none
 - 1 manual*)
 - 2 electrical*)
 - 3 manual and electrical*)
 - 6 manual with key and electrical*)
 - 8 manual with key*)
- *) for 6-digit counter only

Counting capacity

- 6 999,999 (6-digit)
- 8 99,999,999 (8-digit)

Supply voltage

- L6 5VDC N1 48VDC
- M1 12VDC N8 110VDC
- M4 24VDC P4 220VDC
- B4 24VAC, 50/60Hz
- D1 100...115VAC, 50/60Hz
- E1 220...240VAC, 50/60Hz

Value per impulse

- N 1:1 R 4:1 T 12:1*)
 - P 2:1 S 5:1 U 25:1*)
 - Q 3:1
- *) for 6-digit counter only

0 without decimal point

- 1 with decimal point 9
- 2 with decimal point 99
- 3 with decimal point 999
- 8 with label-holder

Mounting (see page 27)

- C fixing with front frame 50 x 60 mm
- D fixing with front frame 37.5 x 75 mm
- E fixing with clamping spring

Note: – The bold typeface denotes the standard versions
 – Other special versions on request (other figure colours; symbols, units, static figures with the display; other supply voltages)

Ordering can be by means of the above ASN-code or in plain language.

Example: Electromechanical totalizing counter CNG, without reset, 8-digit version, 220...240V/50Hz; with label-holder, fixing with clamping spring or CNG 082 E1 NON8 E

Important: The earlier type classification does not correspond with this new code!

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII
C	N	G		2				N	O			

Dimension drawings

	CNG/CNT/CKG DC	CNP/CKG AC/CKP/CKH
Dimensions		
Cut-out for flush-mounting applicable to both methods of fixing		
Fixing with clamping spring. The clamping spring is supplied with the counter when mounting 'E' is quoted in the ordering details.		
Fixing with front frame and 2 countersunk-head screws M3/90°. The front frame is supplied with the counter when the ordering details include mounting 'C', 'D' or 'A'.	<p>Mounting 'C'</p> <p>Mounting 'D'</p>	<p>Mounting 'A'</p>