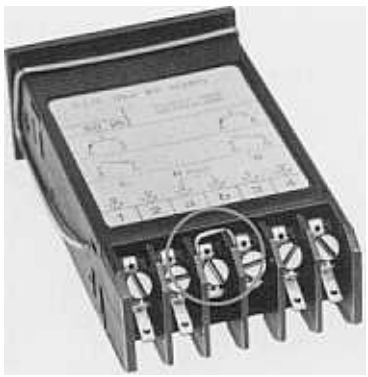
Electronic totalizing counter CLG



Simply remove jumper to render manual reset inoperative

General data

Counting	
Counting capacity	999,999 (the exceeding of the counting capacity is displayed by the pre-zeros)
Counting direction	up
Counting frequency max.	1000 i/s (6 ... 36 VDC) 50 i/s (6 ... 240 VDC or autonomous version) 25 i/s (6 ... 240 VAC)
Display	Permanent LCD 7-segment display, 5.4 × 3.2 mm, with pre-zero suppression
Reset	to zero; manual and electrical (without manual reset by removing the jumper between terminals a and b, push-button inoperative)
Data storage/ Life expectancy	The integrated lithium battery as main supply, supplies the permanent display and simultaneously guarantees the storage of counting value. Life expectancy of lithium battery: 10 years at +25°C
Mounting	Flush-mounting, fixing by means of clamping spring or front frame and screws, any mounting position (see reverse for dimension drawings)
Connections	Screw-terminals (3M, for wires from min. 0.75 □ to max. 2 × 1.5 □) in combination with tags (2.8 × 0.8 mm) for push-on connectors or for soldering
Explosion proof	Submitted according to VDE 0171 for «Intrinsic Safety» and «Special Type of Protection» (Ex)is G5 by an ambient temperature up to 50°C
Immunity to interference	Voltage versions: 2.5 kV at inputs according to IEC 255-4, test procedure E5, class III Autonomous version: 1 kV at inputs according to IEC 255-4, test procedure E5, class II
Ambient temperature	Operation: 0°C to + 50°C; Keeping in stock: −25°C to +65°C
Climatic conditions	Climate type C according to DIN 40040
Vibration strength	Operational reliability 5 g; mechanical strength 5 g; according to IEC 68-2-6, test FC in 3 planes at 10 ... 500 Hz
Protection class (front side)	**IP 40 according to DIN 40050**
Weight	80 g

Electrical data

Main supply from integrated lithium battery, see «General data» for life expectancy

Inputs (count and reset)

Input voltage Power consumption	see «Input data summary»
	– potential-free contacts and NPN electronic sensors (open collector) for autonomous version – voltage pulses (3 versions)

Impulse data	Count 25 i/s (AC)	50 i/s (DC)	1000 i/s (DC)	Reset DC	AC
Impulse length	min. 20 ms	min. 10 ms	min. 0.5 ms	min. 10 ms	min. 20 ms
Impulse interval	min. 20 ms	min. 10 ms	min. 0.5 ms	min. 10 ms	min. 20 ms

Insulation voltage	**2 kV across inputs C and R and between inputs and clamping spring**
Protective measures	
Input filtering	RC-filter; opto-coupler in the voltage versions
Over-voltages	zinc-oxide resistor (ZNR)
Interference	see immunity to interference under «General data»
Connection diagrams	**see «Input data summary»**

Fixing by means of clamping spring or front frame and screws

Input data summary

Voltage pulse versions

Impulse generator	Input voltage	Power consumption	Input signal (impulse) Count	Reset	Connection diagram
Voltage pulses 6 ... 48 V AC/DC	53 V / 5.1 V / 0 V	max. 15 mA impedance 3.6 kΩ			
Voltage pulses 60 ... 240 V AC/DC	264 V / 51 V / 0 V	max. 5 mA impedance 66 kΩ			
Voltage pulses 6 ... 36 V DC	39 V / 5.1 V / 0 V	max. 33 mA impedance 1.12 kΩ			

Note: – Both inputs are independent of polarity.

Autonomous version

Impulse generator	Input voltage	Power consumption	Input signal (impulse) Count	Reset	Connection diagram
Contacts	3 V				
	0 V	10 µA			
Electronic NPN sensor (open collector) off state	3 V				
on state	0.4 V	10 µA			

Note: – Due to the low input voltage of 3 V and minimal 10 µA current, only gold contacts are to be used.
– Suitable SAIA® Snap-Action Switches for use as impulse generators: XCC ... -81 (life expectancy: 50 million operations)
XCK ... -81 (life expectancy: 20 million operations)
XC ... -81 (life expectancy: 10 million operations)

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Ordering details

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII
C	L	G	3	6	2			N		N	Ø	

Input voltage

X6 6...36 V DC (only with 1000 i/s)
X6 6...48 V AC/DC
X7 60...240 V AC/DC
X8 autonomous version

Counting frequency

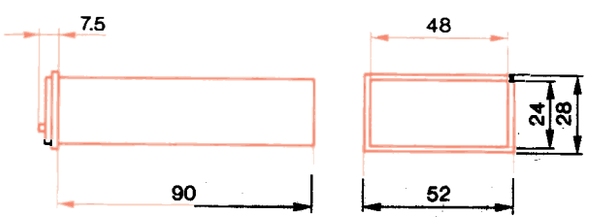
3 50 i/s (DC and autonomous) or 25 i/s (AC)
6 1000 i/s (only for 6...36 V DC)

Type of mounting

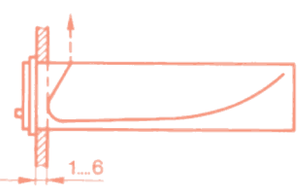
C fixing with front frame 50 × 60 mm
D fixing with front frame 37.5 × 75 mm
E fixing with clamping spring

Dimension drawings

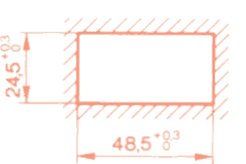
Dimensions



Fixing with clamping spring
The clamping spring is supplied with the counter when mounting type "E" is quoted in the ordering details.

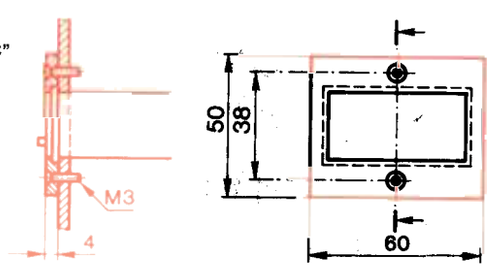


Cut-out for flush-mounting
Applicable to both methods of fixing.

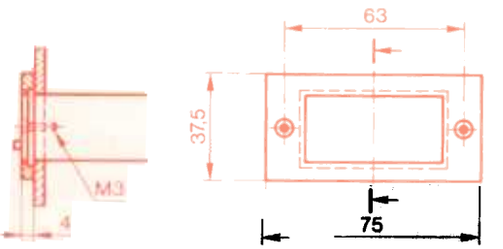


Fixing with front frame
and 2 countersunk head screws M3 / 90°.
The front frame is supplied with the counter when mounting type "C" or "D" is quoted in the ordering details.

Mounting type "C"



Mounting type "D"



Accessories

Clamping spring (included in mounting type E) order No.: CJ 503
Front frame (included in mounting type C) order No.: CJ 403

Front frame (included in mounting type D) order No.: CJ 404
Adaptor frames for existing cut-outs for flush-mounting: on request