Technical data

Electromechanical totalizing counters CBG

(The earlier type classification ET)

Counting capacity	99999 or 9999999
Counting direction	up
Counting frequency max.	DC: 15i/s, AC: 10i/s
Display	Wheels; white figures on black back- ground (red figures on request), 1.8×4mm Special: with transparent label holder above the counting register
Reset	Non-reset, manual or manual with key see 'Ordering details'
Life expectancy	40 million impulses
Mounting	 flush mounting with clamping sprin flush mounting with 2 screws surface mounting with fixing nut surface mounting with 4 screws surface mounting, snap-on rail with socket (accessories) In any mounting position. See pages 6 and 7 'Dimensional drawings' for all details.
Connections	 tags (2.8×0.5mm) for push-on connectors or for soldering flexible leads, length 35cm
Colour of case	grey or black, see 'Ordering details'
Ambient temperature	Operation: 0°C to +50°C on request: -30°C to +80°C
Climatic conditions	Climate type G according to DIN 4004
Vibration strength	Operational reliability: DC version 3g or 2g for AC version in all axes, according to IEC 68-2-6, test FC in 3 planes at 10500Hz
Protection class	IP40 according to DIN 40050
Approbations	U _L (Listing Number E53905, Guide Number ELiY2)
Weight	85g

Electromechanical time impulse counters CBT

(The earlier type classification ET)

General data

Count								
Counting capacity	999(h) 59(min) Time impulse frequency 1i/mi 999(min) 59(s) Time impulse frequency 1i/s							
Counting direction	up							
Display	Wheels; white figures on black back- ground (yellow figures for minutes or seconds), 1.8×4 mm Special: with transparent label holder above the counting register							
Reset	non-reset, manual or manual with key							
Life expectancy	40 million counting impulses							
Mounting	Flush mounting with clamping spring							
Connection	Tags (2.8×0.5mm) for push-on connectors or for soldering							
Colour of case	grey							
(Remaining data see CBC	G)							
Electrical data CBG/C	BT							
Supply voltage (CBT only for direct current)	DC: 6V-, 12V-, 24V -, 48V-, 110V-, 220V- residual ripple max. 48%; voltage tolerance ±15% AC: 24V∼, 48V∼, 110115V ∼, 220240V ∼; 50/60Hz voltage tolerance -15%/+10%							
Power consumption	2.5W (DC), 3.5VA (AC)							
Impulse generator types	Contacts, electronic sensors NPN/PNP							
Impulse data		DC	AC					
	Impulse length	min. 32 ms	min. 48ms					
	Impulse interval	min. 32ms	min. 48ms					
Duty cycle	100%							
Insulation voltage	1.5kV \sim (648V) resp. 2.5kV \sim (110240V) according to VDE 0435/201							
Coil resistance (DC)	Supply voltage	6V- 12	V- 24V-					
	Coil resistance	Ω 230Ω						
	Supply voltage 48V-		110V- 220V-					
	Coil resistance	900Ω 480	00Ω 19000Ω					



Ordering details

Totalizing counters CBG

Mounting	Counting capacity	Reset	Colour of case grey	Colour of case black	Connections
Flush mounting with	99 999	non-reset	CBG 0521)	CBG 056	
clamping spring (Type of case 2 and 6)		manual	CBG1521)	CBG 156	
(Type of case 2 and 0)		manual with key 🕴 🚺	CBG 8521)		
	9 999 999	non-reset	CBG0721)	CBG 076	
Flush mounting with	99 999	non-reset		CBG 053 ²)	
2 screws (Type of case 3)	' "hr	manual 4	∳r ∳r @r st.	CBG 153 ²)	
p inter a	9 999 999	non-reset		CBG 0732)	
Surface mounting with	99 999	non-reset	CBG 0511)	CBG 055	L=tags
fixing nut (Type of case 1 and 5)		manual	CBG151')	CBG155	K=flexible leads
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	9 999 999	non-reset	CBG 071')	CBG 075	1) only for tags
Flush mounting with	99 999	non-reset		CBG 054 ²)	*) only for flexible leads
2 screws (Type of case 4)	9 999 999 - 🖷	non-reset	****	CBG 074 ²)	
Surface mounting with	99 999	non-reset		CBG 057 ²)	
4 screws (Type of case 7)	9 999 999	non-reset		CBG 077 ²)	
Time impulse counter CBT					
Flush mounting with	999.59 ³)	non-reset	CBT 0521)		
clamping spring (Type of case 2)		manual	CBT 1521)		
(.)po or outo L)		manual with key	CBT 8521)		
^a) h/min or min/s given by the time impu	lse frequency				
Supply voltage (CBT only for	direct current)			CBG	
L6 6V- B4 24V	, 50/60Hz			CBG	
M1 12V- C1 48V M4 24V- D1 100- N1 48V- E1 220- N8 110V- P8 220V-	, 50/60Hz -115V, 50/60Hz -240V, 50/60Hz				
		Count			
Accessories (to order separa	tely)	N Totalizin	g counters C	BG	1
CJ 240 Fixing bracket CJ 241 Socket for snap mou CJ 701 Key for resetting	unting		puise counte		Label holder 0 without
See page 7 'Dimension drawings' for all	details				8 with
Noto					
- The hold typeface denotes the	ne standard versi	ons Example Totalizin	a counter CP	3G051	
 Customer specified versions 	on request.	24V-, si	urface mount	ting with fixing	nut, with label holder,

Ordering can be by means of the above ASN-code or by product description.

ng nut, v ig ' grey, tags or

CBG051 M4 L0N8 N

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

LANDIS & GYR			
SODECO			

Dimension drawings





Industrial Components and Controllers

Saia AG Murten 3280 Murten Switzerland Phone 037/72 11 61, Telex 942127 Fax 037/71 44 43

Spark suppression

When wiring up circuits containing impulse counters it is imperative that the following inductive loads or their cut-off peaks are taken into account. In these cases the use of a spark suppressor will extend the contact life or protect electronic switching elements from over-voltages by means of the coil of electromechanical counters with direct current.

The most simple spark suppression is achieved with a diode protection circuit: max. 10i/s



As spark suppressors the following can be used:

DC: Diode, diode-resistor, zener-diode, zinc-oxide resistor, RC-protection circuit AC: Zinc-oxide resistor, RC-protection circuit

Other SODECO®Impulse counters



There is an appropriate counter for every counting application from the wide range of electromechanical and electronic SODECO® series .N. and .K. impulse counters.