

design

### multi-function counter 1300



✓ multi-function counter

pulse and elapsed-time counter

- ✓ counter on quartz time base
- ✓ LED-display, 4-digit, 7mm high
- ✓ 1 preset, 1 relay (1 pnp-output 24V DC, 150mA optional)

48 x 48mm

- ✓ count up to preset value
- ✓ external reset
- ✓ auxiliary voltage 24V DC in AC-operation
- ✓ 8 programmable time ranges from 0.001sec to 9999min
- ✓ 5 years data memory

pulse and elapsed-time counter preset counter with relay output

#### description

The **CM034400** is an electronic multi-function counter which is both simple to set up and which offers a wide variety of possibilities.

For example, the following can be programmed: pulse counters, time counters with switch on/off delay, memories, inversion of the relay and the control input as well as the positive or negative counting edge.

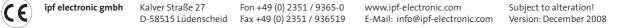
Programming takes place via DIP switches which are laterally mounted in the housing.

When supplying the counter with 230V AC current on the 7 pin terminal strip (contact 1/2 and 6/7) it provides a 24V

DC auxiliary voltage (contact 1/2 and 5/6) on the 6 pin terminal strip for connecting the corresponding sensors.

#### application examples

- reproducible pre-set lengths for automatic trimming devices
- reliable wear and tear/maintenance counter
- process visualization in mechanical engineering and plant construction
- frequency counter with a tachometer function
- pulse counters with a position display





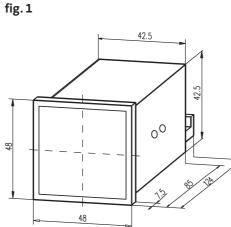


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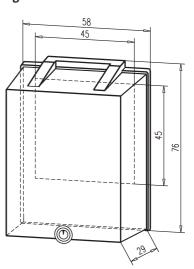


#### **TECHNICAL DATA**

display	LED, 4 decades, 7mm high				
time ranges	0.001 9.999sec/min 0.01 99.99sec/min				
_	0.1 999.9sec/min 1 9999sec/min				
repeat accuracy	< 0.5%				
recovery time	< 10msec (control contact) < 40msec (UB)				
counting mode	count up to preset value				
operating voltage	230V AC or 24V DC, +5% -10%				
power consumption	< 5VA				
auxiliary voltage	24V DC, 50mA				
output	1 relay (change-over contact 250V/3A), 1x pnp 24V DC, 150mA optional				
data storage	5 years				
continuous duty	100% CD				
system of protection (EN 60529)	IP40 (terminals IP20)				
ambient temperature	-20°C +70°C				
sampling frequency	20Hz				







#### CONNECTION

terminal strip 7-pin*			
terminal 1+2	operating voltage (UB) 230V	(terminals bridged)	
terminal 3	relay1 make contact	(optional external auxiliary voltage	+10 30V DC)
terminal 4	relay1 break contact	(optional external auxiliary voltage	0V DC)
terminal 5	relay1 central contact	(optional pnp-output	24V DC, 150mA)
terminal 6+7	oprating voltage (UB) 230V AC	(terminals bridged)	
terminal strip 6-pin			
terminal 1+2	auxiliary voltage +24V DC, 50mA	terminal 1+2 / 6+7 assigned	*7-pin
	UB +24V DC	terminal 1+2 / 6+7 not assigned	*7-pin
terminal 3	count input pnp		
terminal 4	reset pnp		
terminal 5+6	0V DC (minus for auxiliary voltage)	terminal 1+2 / 6+7 assigned	*7-pin
	UB 0V DC (minus)	terminal 1+2 / 6+7 not assigned	*7-pin

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on	<b>s1</b>	s2	s3	s4		s5		
	x 0.001	x 0.0	01 x 0.1	x 1		minutes		
off	-	-	-	-		seconds		
	_		_					
	<b>s6</b>		s7			s8		
on el off	elapsed time counter counting / de-e pulse counter counting / en					g 24V DC, r		
11	puise counter		counting / energ	izing edge	counting	g OV, reset :	24V DC	
		s9		s1(	)			
on	r	relay de-energizes		storage by loss of operating voltage				
off		relay energizes b		reset by loss of the operating voltage				
loing, the co vith DIP swi	unter input does	not have a functio	oltage is applied. In so on! Reset in accordance					
article-no.	design	description	notes	voltage	output	current	display	fig
nticle-no. CM034400 AV000002	<b>design</b> 48x48x124 48x48	description multi-function accessory	notes 20Hz/0.001s9999min coverage	voltage 230V AC / 24V DC lockable	output 1preset, 1relay	current 3A	<b>display</b> LED, 4-digit	fig



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notes



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