evaluation systems



multi-function counter 1000

dimensions

48 x 24 x 48mm

pulse counter elapsed-time counter

- triggering 0 to 260V AC/DC (depending on the version)
- ✓ electric reset
- √ front panel reset can be disabled
- √ suppression of predecimal places
- ✓ LCD-display

pulse counter

- √ frequency of count up to 12kHz
- √ display range -9999999 ... 999999999

elapsed-time counter

- ✓ elapsed hour counter
- √ time recording in hours, minutes, seconds or 1/10 seconds

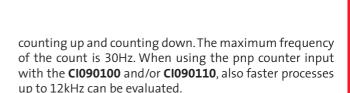
backlight complete with mounting frame



Counters in this series are suited to simple counting tasks. Installation is very simple as a consequence of the compact dimensions and the help that the supplied mounting frame provides.

The voltage supply takes place by means of an internal lithium battery. The counter itself is controlled through voltage impulses or a potential-free contact. You can reset the device via another potential-free contact or the button on the front side. This can be electrically locked against unauthorized use. As an option, the devices can be equipped with background illumination. The electric connections are made via screw terminals.

The impulse counters have an 8-digit LCD display. With the aid of an electric contact, it is possible to select between



The time counters are preferentially used as elapsed-operating hours counters. You can choose between two display options: Seconds and/or hours as a decimal number or a breakdown into hours, minutes and seconds. Two time ranges are available.

application examples

- simple counting tasks
- elapsed hour counters









evaluation systems

1000 multi-function counter



1000 multi-function counter				
article-no.	CI090100	CI095400		
version	pulse counter	pulse counter		
function	fast, slow count	slow count		
	adding, subtracting	adding		
input	pnp, npn, floating contact	AC/DC		
article-no.	CI090110	CI095410		
version	pulse counter, backlight	pulse counter, backlight		
function	fast, slow count	slow count		
	adding, subtracting	adding		
input	pnp, npn, floating contact	AC/DC		
TECHNICAL DATA	Max. 19.3 48 12.34 56 78	Max. 19.3 12.34.56.78 47.7 3		
function	fast, slow count adding, subtracting	slow count adding		
input	npn, pnp, floating contact	10 260V AC/DC		
operating voltage	integrated lithium battery, life approx. 8 years backlight 24V DC ±20% / 50mA	integrated lithium battery, life approx. 8 years backlight 24V DC ±20% / 50mA		
input frequency	npn: 30Hz, pnp: 12kHz	npn: 30Hz, pnp: 12kHz		
display	LCD, 8 decades, 8mm high	LCD, 8 decades, 8mm high		
display (counter reading)	-9999999 +9999999	-9999999 +9999999		
dimensions	48x24x48mm	48x24x48mm		
housing	panel housing 48x24mm according to DIN 43700	panel housing 48x24mm according to DIN 43700		
housing material	plastic	plastic		
fitting depth	approx. 48mm	approx. 48mm		
operating temperature	-10 +60°C	-10 +60°C		
temperature (terminals)	-20 +70°C	-20 +70°C		
air humidity	80% no condensation	80% no condensation		
system of protection (EN 60529)	IP65 frontal	IP65 frontal		
connection	8-pin screw terminal	8-pin screw terminal		
mounting	front panel with screw-on mounting	front panel with screw-on mounting		
	or with clamp and sealing	or with clamp and sealing		
mounting accessories	AC000031	AC000031		









multi-function counter 1000

article-no.	CZ090902	CZ095402
version	elapsed-time-operating hours counter	elapsed-time-operating hours counter
function	programmable time ranges	programmable time ranges
input	npn, floating contact	AC/DC
article-no.		CZ095412
version	:	elapsed-time-operating hours counter backlight
function		programmable time ranges
input		AC/DC
article-no.	CZ090900	CZ095400
version	elapsed-time-operating hours counter	elapsed-time-operating hours counter
function	programmable time ranges	programmable time ranges
input	npn, floating contact	AC/DC
article-no.		CZ095410
version	:	elapsed-time-operating hours counter backlight
function		programmable time ranges
input		AC/DC
TECHNICAL DATA	28 00093650 8 12346678	48 00093650 8 1234 5678
function	programmable time ranges	programmable time ranges
input	npn, floating contact	10 260V AC/DC
operating voltage	integrated lithium battery, life approx. 8 years backlight 24V DC ±20% / 50mA	integrated lithium battery, life approx. 8 years backlight 24V DC ±20% / 50mA
input frequency	*	*
display	LCD, 8 decades, 8mm high	LCD, 8 decades, 8mm high
display (counter reading)	programmable time ranges	programmable time ranges
dimensions	48x24x48mm	48x24x48mm
housing	panel housing 48x24mm according to DIN 43700	panel housing 48x24mm according to DIN 43700
housing material	plastic	plastic
fitting depth	approx. 48mm	approx. 48mm
operating temperature	-10 +60°C	-10 +60°C
temperature (terminals)	-20 +70°C	-20 +70°C
air humidity	80% no condensation	80% no condensation
system of protection (EN 60529)	IP65 frontal	IP65 frontal
connection	8-pin screw terminal	8-pin screw terminal
mounting	front panel with screw-on mounting or with clamp and sealing	front panel with screw-on mounting or with clamp and sealing
mounting accessories	AC000031	AC000031
* not specified		





evaluation systems

1000 multi-function counter



connection

terminal	pulse counter CI0901XX	elapsed-time counter CZ0909XX	pulse counter CI0954XX	elapsed-time counter CZ0954XX
1	INP A count fast	not connected	INP count	timing input
2	INP B count slow	INP B timing input	common AC/DC	common AC/DC
3	external reset	external reset	external reset	external reset
4	enable front reset	enable front reset	enable front reset	enable front reset
5	mode	mode	not connected	mode
6	GND	GND	GND	GND
7	 option backlight 	option backlight	 option backlight 	 option backlight
8	+ option backlight	+ option backlight	+ option backlight	+ option backlight

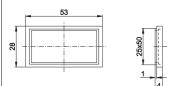
description pulse counter

	CI090100	CI095400
	CI090110	CI095410
input	pnp	AC/DC
function	fast and slowly count count processes	slowly count processes
INP A	fast count, pnp, 12kHz	slow count AC/DC, 30Hz
INP B	slow count, npn or floating contact 30Hz	ext. Reset, AC/DC
mode	adding or subtracting	adding

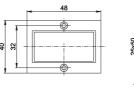
description elapsed-time counter

	CZ090902	CZ095402	CZ090900	CZ095400
	-	CZ095412	-	CZ095410
input	npn	AC/DC	npn	AC/DC
function	time recording h,min h, 1/100 h	time recording h,min h, 1/100 h	time recording h,min,sec sec, 1/10 sec	time recording h,min, sec sec, 1/10 sec
INP A	-	timer, AC/DC	-	timer, AC/DC
INP B	timer, npn	ext. Reset, AC/DC	timer, npn	ext. reset, AC/DC
mode	99999h 59min or 99999.99h	99999h 59min or 99999.99h	9999h 59min 59sec or 999999.9sec	9999h 59min 59sec or 999999.9sec

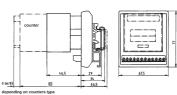
front panel for clamp fixing



for screw fixing



adaptor for DIN-rail AC000031



This data sheet contains the available standard versions only.

You will receive an operating manual when the device is supplied. This will provide a detailed explanation concerning the functions and programming.

Warning: Never use these devices in applications where the safety of a person depends on their functionality.

You also find this data sheet, as well as contact details under www.ipf-electronic.com



