

Totalizers electromechanic

Small impulse counters, adding

Display 4- or 6-digits, with/without reset button

F 102, F 112, F 122



F 102 - Center screw mount at rear



F 112 - Front panel with screw mount



F 122 - Front panel with spring clips

Features

- Small impulse counter
- Adding
- Display 4- or 6-digits
- With or without reset button

Technical data - electrical ratings

Voltage supply	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$
Ripple residue	<48 %
Nominal frequency	50 / 60 Hz
Power consumption	2.3 W, 5.5 VA
Pulse ratio	1:1
Service life	VDC - 100 million impulses VAC - 50 million impulses
Standard DIN EN 61010-1	Protection class II Overvoltage category II Pollution degree 2
Emitted interference	DIN EN 61000-6-4
Interference immunity	DIN EN 61000-6-2
Approvals	CE conform, UL/cUL

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Technical data - mechanical design

Display	White numbers on black
Number of digits	4-digits with reset button 6-digits without reset button
Digit height	4 mm
Count mode	1 impulse = 1 count
Step-by-step switching	Adding in 2 half steps
Measuring range	9999 and 999 999
Reset	Manual by reset button
Operating temperature	0...+60 °C
Storing temperature	-20...+70 °C
Relative humidity	80 % non-condensing
Protection DIN EN 60529	IP 41
Housing type	Built-in housing
E-connection	Pin connector D = 1.5 mm
Cutout dimensions	33 x 22 mm
Weight approx.	75 g
Material	Housing: Hostaform POM, black

F 102

Mounting	Rear center screw mount
Dimensions W x H x L	32 x 21.5 x 59 mm
Installation depth	74 mm

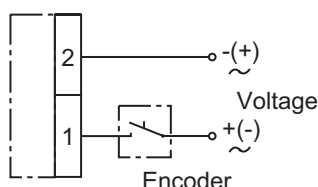
F 112

Mounting	Front panel with 2 screws
Dimensions W x H x L	39 x 37 x 59 mm
Installation depth	72 mm

F 122

Mounting	Front panel with spring clips
Dimensions W x H x L	37 x 25 x 59 mm
Installation depth	72 mm

Connection diagram



Trigger level

Max. counting speed 6 pulses/s

Voltage	230 VAC +6/-10 %
Power	5.5 VA
Min. pulse duration	50 ms
Min. pulse interval	120 ms
Switch on time (at 25 °C)	30 % max. 7 min

Max. counting speed 10 pulses/s

Voltage	24/110 VAC ±10 %
Power	3 VA
Min. pulse duration	50 ms
Min. pulse interval	50 ms
Switch on time (at 25 °C)	100 %

Max. counting speed 20 pulses/s

Voltage	24 VDC ±10 %
Power	2.3 W
Min. pulse duration	25 ms
Min. pulse interval	25 ms
Switch on time (at 25 °C)	100 %

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Part number		
Center screw mount		Front panel with screw mount
F 102.		F 112.
	Display B 4-digits 9999 D 6-digits 999 999	Display B 4-digits 9999 D 6-digits 999 999
	Voltage C3 24 VDC C5 24 VAC C8 110 VAC C9 230 VAC	Voltage C3 24 VDC C5 24 VAC C8 110 VAC C9 230 VAC
	Reset 450L With reset button, 4-digits 600N Without reset button, 6-digits	Reset 450K With reset button, 4-digits 600M Without reset button, 6-digits
Front panel with spring clips mount		
F 122.		
	Display B 4-digits 9999 D 6-digits 999 999	
	Voltage C3 24 VDC C5 24 VAC C8 110 VAC C9 230 VAC	
	Reset 450N With reset button, 4-digits 600Q Without reset button, 6-digits	

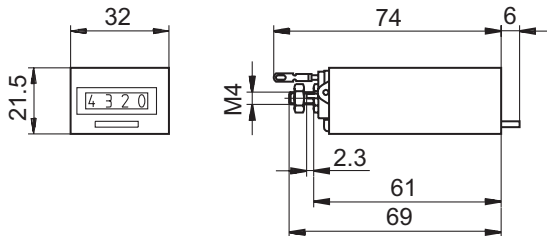
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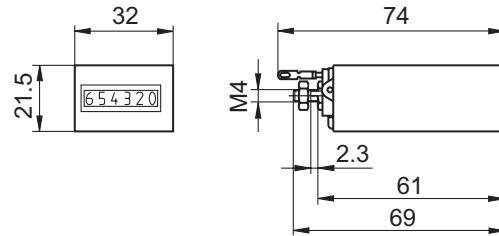
F 102, F 112, F 122

Dimensions

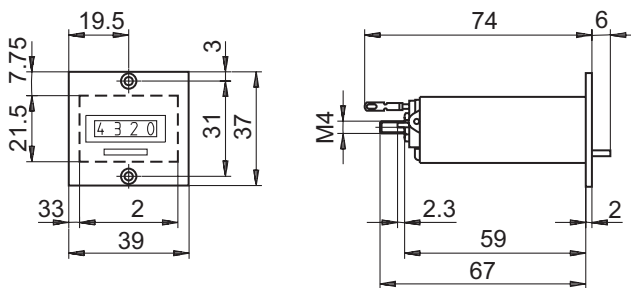
F 102 with reset button, 4-digits



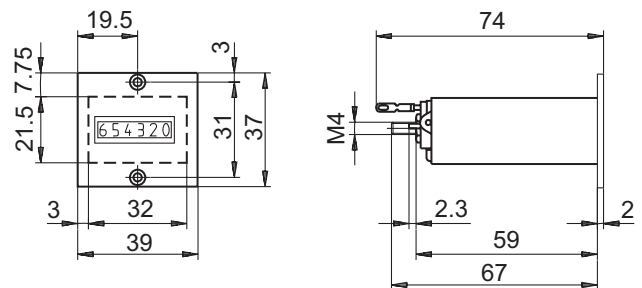
F 102 without reset button, 6-digits



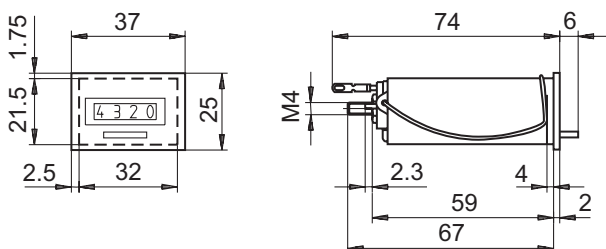
F 112 with reset button, 4-digits



F 112 without reset button, 6-digits



F 122 with reset button, 4-digits



F 122 without reset button, 6-digits

