- Display : LCD 10 mm
- Input : contact, voltage or solid-state (PNP/NPN)
- Front panel or electrical reset to zero■ Lithium battery 8 years life
- Scale factor : 0.001 to 9999 (3253 and 3293)
- Decimal point selectable (3253 and 3293)
- Rate (3253 and 3293)







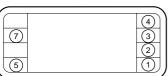
Types	3233	3253	3293
Totalizer	•		
Ratemeter		•	
Totalizer and Ratemeter			•

Part numbers				
Obanastanistis		87 614 040	87 614 340	87 614 440
Characteristics				
Display	Totalizer mode	8 digit LCD, height 10 mm		8 digit LCD, height 10 mm
	Tachometer mode	_	6 digit LCD, height 10 mm	6 digit LCD, height 10 mm
Inputs				
1 slow counting input for contact clo	osure or NPN open-collector transistor	terminals 1 and 2	terminals 1 and 2	terminals 1 and 2
	Max. frequency	40 Hz	20 Hz	20 Hz
	Min. contact-closed time	12 ms	10 ms	10 ms
	Min. contact-open time	12 ms	20 ms	20 ms
1 input for high-speed counting sign		terminals 1 and 3	terminals 1 and 3	terminals 1 and 3
	Max. frequency	5 kHz	5 kHz (5/coef. if coef>1)	5 kHz (5/coef. if coef>1)
	High level	3 • 30 V	3 • 30 V	3 • 30 V ===
	Low level	0 • 0.7 V ===	0 • 0.7 V ===	0 • 0.7 V
	Minimum pulse time	70 µs		_
Reset		- 1		
External : terminals 1 and 4	Volt-free contact	•	_	•
External : terminale and	NPN open-collector transistor	•		(Only for totalizer mode)
	Minimum pulse time	300 ms		300 ms
Front panel	William paloe time	by push-button if terminals		if enabled at time
·		1 and 5 connected together		of programming
Input impedance		50 kΩ/+3 V ==	50 kΩ/+3 V 	50 kΩ/+3 V ==
		(High-speed counting) 100 kΩ/+3 V ==	(High-speed counting) 100 kΩ/+3 V $=$	(High-speed counting) 100 k Ω /+3 V ==
		(Slow counting)	(Slow counting)	(Slow counting)
Tachometer mode	Туре		Reciprocal 1/Tau	Reciprocal 1/Tau
	Accuracy	<u> </u>	± 0.2 %	± 0.2 %
	Sampling time		0.7 s	0.7 s
	Time limit for measuring	<u> </u>	10 s	10 s
Scale factor	Tachometer mode	<u> </u>	0.001 • 9999 (0 not permitted)	0.001 • 9999 (0 not permitted
	Totalizer mode		_	0.0001 • 99.9999
Decimal point	Tachometer mode		4 programmable positions	4 programmable positions
·	Totalizer mode	<u> </u>		5 programmable positions
Rate			x1 or x10	x1 or x10
		_	programmable	only for ratemeter
Time base			Crystal controlled	Crystal controlled
Lithium battery		3 V ===	3 V ==	3 V ===
Life		8 Years	8 Years	8 Years
A power supply must be provided to	or a sensor (12 V ==)	•	•	•
Physical details and protection		<u> </u>	•	
Material : Self-extinguishing (UL94)	VO)	•	•	•
Front panel protection	/	IP56	IP56	IP56
Mounting (panel-mounting - slide-a	ction clips)	•	•	•
Connections at rear of case		Screw terminals	Screw terminals	Screw terminals
	1		•	•
Waterproof dasket for panel sealing				
Waterproof gasket for panel sealing		0 °C + 55 °C	0 °C + 55 °C	0 °C + 55 °C
Temperature limits	Use Stored	0 °C + 55 °C 0 °C + 70 °C	0 °C + 55 °C 0 °C + 70 °C	0 °C + 55 °C 0 °C + 70 °C

To order, specify :			
Standard products	1 Part number		
	Example : Totalizer/counter - 87 614 040		



Terminal markings



Type 3233

- 1 Common 0 V
- 2 Slow counting input
- 3 High-speed counting input
- 4 Remote reset
- 5 Enable/disable front reset button

Type 3253

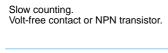
- 1 Common 0 V
- 2 Slow counting input
- 3 High-speed counting input
- 5 Programming

Type 3293

- 1 Common 0 V
- 2 Slow counting input 3 - High-speed counting input
- 4 Remote reset
- 5 Programming

Connections

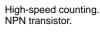
Totalizer 3233





Remote reset. By contact.







Remote reset. By NPN transistor.



High-speed counting. PNP transistor.



Front reset enable.

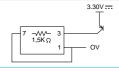


Ratemeter 3253

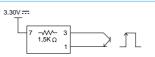




High speed counting. PNP transistor



High-speed counting. NPN transistor or voltage level.



Programming enable.



Totalizer and Ratemeter 3293

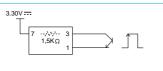
Slow counting. Volt-free contact.



Remote reset. Volt-free contact.



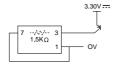
High-speed counting. NPN transistor or voltage level.



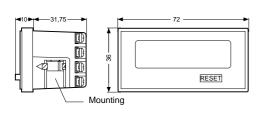
Programming enable.



High-speed counting. PNP transistor.



Dimensions



Panel cut-out

