

Electronic Timer/Counter — continued

Totaliser/Time Counter/Tachometer LCD Display



- Large 8.6mm character height
- Backlit models available for improved visibility in dimly lit environments
- Black and light grey cases available
- Key protect switch prevents accidental reset
- Low panel depth 48.5mm
- Variety of input options
- Self powered by built in battery, backlit models require 24Vdc power supply
- UL, CSA and VDE approved

H = 24, W = 48, D = 48.5

Totaliser

- 8 digits, counting range 0 to 99999999
- Dual input speed, 30Hz to 1kHz (except AC/DC multi-voltage input versions)

Time Counter

- 7 digits, time range 0 to 3999d 29.9h
- Dual time range 999999.h to 3999d23.9h or 999h 59m59 to 9999h 59.9m

Tachometer

- Revolutions displayed up to 5 digits
- Dual revolution display according to encoder resolution used: 1000s⁻¹ (rps)/1000m⁻¹ (rpm) or 1000.0s⁻¹ (rps)/1000.0m⁻¹ (rpm)

Supply voltage:	Backlight type	24Vdc
	Without Backlight	Not required (internal battery)
Count input:	PNP/NPN	High 4.5 to 30 Vdc Low 0 to 2 Vdc
Multivoltage:	High 24 to 240 Vac/dc Low 0 to 2.4 V ac/dc	
Non-voltage:	Short circuit impedance 10K Ω max Open impedance 750 K Ω min	
Operating Temperature:	-10°C to +55°C	

TIM151 TIM151a

Range	Input	Mfrs. List No.	Order Code	1+	5+	10+
Counters - Black Case - With Backlight						
30Hz to 1kHz	NPN/PNP	H7EC-NV-BH	326-2730			
Counters - Black Case						
30Hz to 1kHz	NPN/PNP	H7EC-NV-B	326-2753			
20Hz	Multi-voltage	H7EC-NFV-B	326-2777			
20Hz	Non-voltage	H7EC-N-B	326-2790			
Counters - Grey Case - With Backlight						
30Hz to 1kHz	NPN/PNP	H7EC-NV-H	326-2741			
Counters - Grey Case						
30Hz to 1kHz	NPN/PNP	H7EC-NV	326-2765			
20Hz	Multi-voltage	H7EC-NFV	326-2789			
20Hz	Non-voltage	H7EC-N	326-2807			
Time Counters - Black Case With Backlight						
Hours/Days	NPN/PNP	H7ET-NV-BH	326-2819			
Hours/mins/sec	NPN/PNP	H7ET-NV1-BH	326-2893			
Time Counters - Black Case						
Hours/Days	NPN/PNP	H7ET-NV-B	326-2832			
Hours/Days	Multi-voltage	H7ET-NEV-B	326-2856			
Hours/Days	Non-voltage	H7ET-N-B	326-2870			
Hours/mins/sec	NPN/PNP	H7ET-NV1-B	326-2911			
Hours/mins/sec	Multi-voltage	H7ET-NFV1-B	326-2935			
Hours/mins/sec	Non-voltage	H7ET-N1-B	326-2959			
Time Counters - Grey Case - With Backlight						
Hours/Days	NPN/PNP	H7ET-NV-H	326-2820			
Hours/mins/sec	NPN/PNP	H7ET-NV1-H	326-2900			
Time Counters - Grey Case						
Hours/Days	NPN/PNP	H7ET-NV	326-2844			
Hours/Days	Multi-voltage	H7ET-NFV	326-2868			
Hours/Days	Non-voltage	H7ET-N	326-2881			
Hours/mins/sec	NPN/PNP	H7ET-NV1	326-2923			
Hours/mins/sec	Multi-voltage	H7ET-NFV1	326-2947			
Hours/mins/sec	Non-voltage	H7ET-N1	326-2960			
Tachometer - Black Case - With Backlight						
1000rps-1000rpm	NPN/PNP	H7ER-NV-BH	326-2972			
Tachometer - Black Case						
1000rps-1000rpm	NPN/PNO	H7ER-NV-B	326-2996			
1000rps-1000rpm	Non-voltage	H7ER-N-B	326-3010			
Tachometer - Grey Case - With Backlight						
1000rps-1000rpm	NPN/PNP	H7ER-NV-H	326-2984			
Tachometer - Grey Case						
1000rps-1000rpm	NPN/PNP	H7ER-NV	326-3009			
1000rps-1000rpm	Non-voltage	H7ER-N	326-3022			

Counter/Timer/Tacho/Position Indicator – TIC0 731 HENGSTLER LED or LCD



Bezel = 24 48 Panel cut-out = 22 45
Depth behind bezel = 32, 60 (925-731,925-755, 925-767, 925-810)

- Counters with 8-digit LCD/6 digit LED displays
- Bi-directional position indicator with 6-digit LED display
- Time counters with 8-digit LCD display
- Tachometers with 8-digit LCD and 6-digit LED display
- Display only unit for PLC serial communication. 8-digit LCD display
- Bezel sealed to IP65
- Reset can be either manual via keypad or external, and can be locked

Function	Display	Supply	Mfrs List No.	Order Code
Counter	LCD	Internal lithium battery	0.731.101	925-720
Counter(high voltage input)	LCD	Internal lithium battery	0.731.301	925-731
Counter	LCD	12-24Vdc	0.731.201	925-743
Counter	LED	12-24Vdc	0.731.501	925-755
Position Indicator	LED	12-24Vdc	0.731.506	925-767
hh:mm:ss	LCD	Internal lithium battery	0.731.103	732-779
0.01hr	LCD	Internal lithium battery	0.731.104	725-780
hh:mm:ss	LCD	12-24Vdc	0.731.203	735-792
Tacho	LCD	12-24Vdc	0.731.202	725-809
Tacho	LED	12-24Vdc	0.731.502	735-810
Display only	LCD	12-24Vdc	0.731.205	725-822

Mounting	With clamping frame
Pulse shape	Any square wave 1:1 (for max.frequency)
Min. pulse length	25ms (20Hz), 17ms (30Hz), 70µs (7.5kHz)
Display	8-digit LCD, 7mm or 6-digit LED, 7mm
Nominal data retention	versions 101, 103, 104, 301- lithium battery 7 years other versions N.V >10yrs
Amplitude thresholds	<0.7V and >5V, max.40Vdc (standard modes) <3V and >12V, max.250V ac/dc (high input version)
Counting frequency	max 7.5kHz (30Hz for contact input) standard models max.20Hz high input version only
Operating temperature	0°C to +50°C
Storage temperature	-20°C to +60°C
Electrical connection	screw terminals

Mfrs. List No:	0.731.101 = 925-720,	0.731.301 = 925-731,	0.731.201 = 925-743,
	0.731.501 = 925-755,	0.731.506 = 925-767,	0.731.103 = 925-779,
	0.731.104 = 925-780,	0.731.203 = 925-792,	0.731.202 = 925-809,
	0.731.502 = 925-810,	0.731.205 = 925-822	

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Supply Voltage	Function/Display	Order Code	1+	5+	10+
Lithium battery	Counter/LCD	.925-720			
Lithium battery	Counter/LCD	.925-731			
12-24Vdc	Counter/LCD	.925-743			
12-24Vdc	Counter/LED	.925-755			
12-24Vdc	Position Indicator/LED	.925-767			
Lithium battery	hh:mm:ss/LCD	.925-779			
Lithium battery	0.01hr/LCD	.925-780			
12-24Vdc	hh:mm:ss/LCD	.925-792			
12-24Vdc	Tacho/LCD	.925-809			
12-24Vdc	Tacho/LED	.925-810			
12-24Vdc	Display only/LCD	925-822			

Counter/Timer/Rate Meter/Position Indicator – TIC0735 HENGSTLER LED



H = 48, W = 96, D = 100 Panel cut-out 45 92

- Family of counters and process indicators including, Totaliser, 1 and 2 preset counters, Batch preset counters, elapsed time indicator, rate meter/totaliser and position indicator
- Extra large, 5 digit dual colour red/green LED display with programmable colour settings
- Unique dual colour display allows colour change at alarm or excess value giving indication at a single glance
- All models have limit and preset values
- Scaling available as standard
- External program lockout
- Large keys offer safety and ease of operation
- NPN and relay outputs
- Front panel protection to IP65