Supply voltage	100 to 240V ac 50/60Hz
Operating modes	Up, down and up/down (command, individual or phase difference)
Count range	0 to 999, 999 pulses
Count speed (max.)	30Hz, 1kHz, 5kHz 10kHz
Pre-scaler	0.001 to 99.999
Control outputs	Contacts: 3A @ 250V ac (resistive) Transistor: Open collector 100mA @ 30V dc
Input signals	Count, reset, key protection, gate, batch, batch count reset
Sensor power supply	12V dc ±10% 160mA, 24V dc ±10% 80mA
Reset system	External, manual and automatic
Batch output	Transistor (NPN or PNP open collector)
Operating temperature range	-10°C to +55°C

Mftrs. List No. H7BRB500 100-240V ac

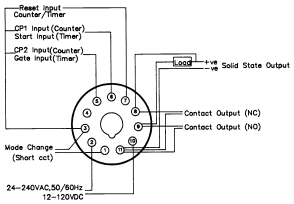
83X

Order Code	Price Each 1+	5+	10+
280-070			

Electronic Timer/Counter

6 Digit LCD – H8CA

OMRON



H = 48, W = 48, D = 77 (behind bezel). Panel cut-out = 45sq

- Multifunction control of time or counting
- Programmed via touch sensitive keys on front facia
- Mode pre-selected from three counter inputs and four counter/timer outputs
- Status/timing mode displayed on LCD with data protection via internal battery powered memory
- Transparent hinged cover protects LED, unit is plug-in to 11 pin screw base
- DIN48 case
- **UL**, **CSA** and **SEV** approved

Operating mode	Selectable input and output modes
Count range	0 to 999,999 impulses
Count speed	ac model 30Hz, dc model 1kHz
Time ranges for selection	0 to 9,999.99s 0 to 99,999.9m 0 to 99,999.9hr
Repeat accuracy	±0.05% ±0.005s
Reset time	20ms
Output of AC Model	Relay SPCO 3A @ 250V ac
Output of DC Model	Open collector SPNO 100mA @ 30V dc
Operating voltage	ac Model 24 to 240V ac dc Model 12 to 120V dc
Operation:	
Output Mode	N = Count to preset, display held at present, external reset F = Count to preset, display continues, external reset C = Count to preset, display resets, output ON for one shot time only R = Count to preset, display remains and output ON for one shot time.
Input Mode	A = CP1 input accepts pulses. CP2 input determines if count is up or down B = CP1 accepts impulses upward. CP2 accepts impulses and changes direction to count downward C = CP1 leads CP2 and count is upward. CP2 leads CP1 and count is downward

Warning: Input and mode change pins are not electrically isolated from the timer supply.

Mftrs. List No: H8CA-SAL = 176-335, H8CA-SDHS = 176-336, P3GA11 = 424-754, Y92F30 = 104-636, P2CF11 = 425-382

42X

Voltage Timer/Counter	Order Code	Price Each 1+	5+	10+
24-240V ac	**.176-335**			
12-120V dc	**.176-336**			
Accessories				
DIN rail screw socket	**425-382.**			
Panel mount screw socket	**424-754**			
Panel mount adaptor	**104-636.**			

Zero, Single or Dual Preset LED or LCD

HENGSTLER

H = 48, W = 48, D = 93 (behind bezel), Panel Cut-out = 45sq.

- Multifunction units with front facia sealed to **IP65**
- Units have Counter, Tachometer and Timer meter modes
- Counter Mode-Versions with outputs can be programmed as a shift counter, preset counter, preset counter + totaliser or preset counter + batch counter.
- Inputs are programmable for quadrature, differential, count/direction, or single input adding/subtracting
- Presets, manual reset and prescaler can all be disabled
- **Tachometer Mode** - Wide frequency range from 0.125Hz or 5kHz
- Version with two variable limit values. Preset and prescaler can be disabled
- **Timer Meter Mode** - Versions with outputs can be programmed as preset timer or preset timer + total time
- Programmable to measure seconds, minutes or hours, single or cummulative time periods, remaining time, or lapsed
- Resolution programmable up to three decimal places
- Transistor and relay (with changeover contact) outputs for each preset

Digit height	LCD 9mm, LED 7.6mm
Display	6 digits, leading zero suppression, programmable decimal point
Amplitude thresholds	>8V and <2V, max. 40V dc
Current consumption	12-24V dc <150mA, 100/115/230V ac <50mA
Inputs	Solid state NPN/PNP or contact closure. Counting frequency max 5kHz (2.5kHz bi-directional) or 30Hz
Minimum input pulse width	100µs
Outputs	Transistor and relay (with changeover contact) with each preset Relay : 250V ac/dc max., 5V ac/dc min. 1A max, 10mA min. Transistor : PNP, 12-24V dc, 50mA max.
Memory retension	Non volatile RAM
Sensor power supply	12-24V dc, 50mA max (AC versions only)
Prescaler	Multiplier programmable from 0.0001 to 999.999 (counter and tachometer modes)
Operating temperature	0 to 50°C
Storage temperature-	20 to 70°C
Three control inputs	Input A - To start and stop the count Input B - To reset Input C - May be used to freeze the display in conjunction with input A (count continues although display frozen)

Mftrs. List No: 0.732.000 = 766-896, 0.732.001 = 766-902, 0.732.037 = 766-914, 0.732.002 = 766-926, 0.732.003 = 766-938, 0.732.039 = 766-940, 0.732.012 = 766-951, 0.732.013 = 766-963, 0.732.049 = 766-975, 0.732.018 = 766-987, 0.732.019 = 766-999, 0.732.055 = 767-001, 0.732.020 = 767-013, 0.732.021 = 767-025, 0.732.057 = 767-037, 0.732.030 = 767-049, 0.732.031 = 767-050, 0.732.067 = 767-062

105X

Supply Voltage LCD Display	Presets	Order Code	Price Each 1+	5+	10+	25+
12-24V dc	0	**.766-896**				
230V ac	0	**.766-902**				
115V ac	0	**.766-914**				
12-24V dc	1	**.766-926**				
230V ac	1	**.766-938**				
115V ac	1	**.766-940**				
12-24V dc	2	**.766-951**				
230V ac	2	**.766-963**				
115V ac	2	**.766-975**				
LED Display						
12-24V dc	0	**.766-987**				
230V ac	0	**.766-999**				
115V ac	0	**.767-001**				
12-24V dc	1	**.767-013**				
230V ac	1	**.767-025**				
115V ac	1	**.767-037**				
12-24V dc	2	**.767-049**				
230V ac	2	**.767-050**				
115V ac	2	**.767-062**				

Continued

Fixed Prices

We aim to maintain all prices in this book for the lifetime of this issue.

New Products

For more information on new products check out the New Product Guide.