

Electronic Counters — continued

Single and Dual Preset – H7CR  
6 Digit Backlit LCD



- Panel mounting DIN48 predetermining counter with single and dual preset
- Present and set values/indicators displayed on backlit LCD
- 12V sensor power supply, Prescaler, selectable maximum count speed and memory backup
- UL, CSA, SEV approved

H = 48, W = 48 D (behind panel) = 100  
Panel cut-out = 45sq.

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 (selectable)  
Pre-scaler 0.001 to 99.999  
Relay output(s) SPNO 3A 250V ac (resistive)  
Input signals Count, reset, key protection  
Sensor power supply 12V dc ±10% (5% ripple max.) 100mA  
Reset system External, manual and automatic  
Operating temperature range -10°C to +55°C

Mfrs. List No. H7CRB500 100-240V ac = 280-057, H7CRBW500 100-240V ac = 280-069

82X

	Order Code	1+	5+	10+	25+	50+
Single preset	.280-057					
Dual preset	.280-069					

4 and 6 Digit LCD Display – LC4H



H = 48, W = 48, D = 64.5 (screw), 70.1 (11-pin)

- 5 input modes and 7 output modes
- Bright 2 colour backlit LCD display
- Seesaw buttons for easy operating (4 digit type)
- Present and preset values displayed
- Screw (flush mounting) and 11-pin (surface mounting) connection styles available
- Water and dust resistant to IP66
- Relay and solid state (transistor) output versions available
- UL and CSA approved

Operating modes  
Input Up, down, directive, independent or phase difference  
Output Maintain output/hold count, maintain output/over count I, maintain output/over count II, one shot/over count, one shot/recount I, one shot/recount II, one shot/hold count  
Count range -999 to 9999 (4 digit), -99999 to 999999 (6 digit)  
Count speed 30Hz, 5kHz (selectable)  
Contacts 3A, 250Vac (relay), 100mA, 30Vdc (transistor)  
Operating voltage 100 to 240Vac (ac type), 12 to 24Vdc (dc type)  
Operating temperature -10°C to +55°C

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Voltage	Connection Type	Order Code	1+	5+	10+	25+
<b>Relay Output – 4 digit</b>						
12V to 24Vdc	Screw	185-073				
12V to 24Vdc	11-pin	185-085				
100V to 240Vac	Screw	185-097				
100V to 240Vac	11-pin	185-103				
<b>Transistor Output – 4 digit</b>						
12V to 24Vdc	Screw	185-115				
12V to 24Vdc	11-pin	185-127				
100V to 240Vac	Screw	185-139				
100V to 240Vac	11-pin	185-140				
<b>Relay Output – 6 digit</b>						
12V to 24Vdc	Screw	185-152				
12V to 24Vdc	11-pin	185-164				
100V to 240Vac	Screw	185-176				
100V to 240Vac	11-pin	185-188				
<b>Transistor Output – 6 digit</b>						
12V to 24Vdc	Screw	185-190				
12V to 24Vdc	11-pin	185-206				
100V to 240Vac	Screw	185-218				
100V to 240Vac	11-pin	185-220				
<b>Socket</b>						
DIN rail/surface	11-pin	185-061.				

Single and Dual Preset – Signo 721  
5 Digit LED Display



H = 48, W = 48, D = 100 (behind bezel)  
Panel cut-out = 45 45

- Panel mounting DIN48 predetermining counter with single or dual preset
- 5-digit 7mm high red LED
- Count and remote reset inputs by contact closure or solid state (PNP or NPN)
- Up or down counting is switch selectable
- Reset is manual, external or automatic
- Keypad used to set preset values, prescaler and count value correction facility. Also with keypad lock out facility which allows reset or total lock
- 10 year non-volatile memory
- Front fascia protection to IP54
- Connection by plug-in screw terminals

Supply voltage dc type: 12 to 24V dc -5% +10%  
ac type: 100 to 240 V ac ±10%  
Count input ≥8V and ≤2V, ±40V max.  
Active edge Can be set to positive/negative  
Count frequency 5kHz max, 30Hz bounce-free  
Pre-scaler 0.001 to 9.999  
Relay outputs 30V dc/250V ac 1A with suppressor circuit.  
Single pre-set type: SPCO. Dual pre-set type: Each output SPNO.  
For single pre-set type and P2 on dual pre-set type the output can be varied 25ms to 1s or latched.  
Sensor power supply dc type: V<sub>in</sub> 2V, I<sub>max</sub> 60mA  
ac type: 24V dc, I<sub>max</sub> 60mA  
Operating temp. range 0°C to 50°C

Mfrs. List No. 0.721.101 = 478-453, 0.721.102 = 478-465, 0.721.105 = 478-477, 0.721.106 = 478-489

85X

Voltage	Order Code	1+	5+	10+
<b>Single Preset</b>				
12-24V dc	.478-453			
100-240V ac	.478-465			
<b>Dual Preset</b>				
12-24V dc	.478-477			
100-240V ac	.478-489			

High Performance – H7AN  
4 Digit LED Display – 72 DIN



H = 72, W = 72, D = 115 (behind bezel)  
Panel cut-out = 68sq.

- Panel mounting DIN72 high speed electronic counter for batch or positional control with 4-digit LED display
- Sensor input is either relay contact or solid-state signal
- Reset is either external, manual or self reset
- Battery backup retains count in case of supply failure
- Counter has built-in selector switches for programming functions such as maximum counting speed, UP or DOWN display, manual reset
- Connection is by screw terminals
- UL and CSA approved

Supply voltage 100-240V ac, 50/60 Hz  
Operation mode Counts up to preset or down to zero (selectable)  
Maximum count 9999  
Count and reset inputs Contact or solid state +5V to +30V  
Max. count speed Contact: input 30 cps. Solid-state: input 5K cps  
Control output Contact: 250V ac, 3A resistive  
Solid state: open collector 30Vdc max, 100mA max  
Power supply for externally connected components 12V dc ±10%, 80mA (permissible ripple factor 5% max)  
Operating temperature range -10°C to +55°C

Mfrs. List No. H7AN-4DM

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Order Code	1+	5+	10+
170-561			

High Performance Batch – H7BR  
6 Digit Backlit LCD – DIN72



H = 72, W = 72, D = 100  
Panel cut-out = 68sq.

- Panel mounting DIN72 single stage predetermining counter
- Present and set values and indicators are displayed on LCD with built in back light
- Batch counting function, pre-scaler, 12V/24V dc sensor power supply, selectable maximum count speed up to 10KHz and 10 year battery back-up
- All operation keys on front panel with four levels of key protection
- Connection is by screw terminals
- UL, CSA and SEV approved