

## Bulletin 700-HR

- Dial Timing Relays
- 5 A Contact Rating
- Multiple Programmable Timing Ranges
- Tube Base Pin Style Terminals
- Multi-Voltage Inputs
- Timed Contacts and Instantaneous Contacts
- Transistor Outputs
- Single Function and Multi-Function
- Up to 10 Different Operating Modes
- 0.05 s...300 h Timing Range

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### Description

The Bulletin 700-HR Multi-Function, Multi-Range Timing Relays are available with 16 programmable timing ranges with calibrated scales. They have seven programmable timing modes: ON-Delay, OFF-Delay, Repeat Cycle ON, Repeat Cycle OFF, Signal ON/OFF, ON-Delay One Shot, and One Shot. They are tube based relays with 8 and 11 pin style terminations.

The Bulletin 700-HRC/HRM Multi-Range Timing Relays are ON-Delay only, and are available with multiple timing ranges with calibrated scales. They are tube based relays with pin style terminations and timed and instantaneous SPDT contact.

The Bulletin 700-HRF Twin Timers are Repeat Cycle -ON and -OFF delay only. They are tube based relays with pin style terminations with DPDT timed contacts.

The Bulletin 700-HRY Star-Delta Timers are Multi-Function, Multi-Range Timing Relays with SPST timed and instantaneous contacts. They are tube based relays with 8-pin style terminations.

The Bulletin 700-HRQ True OFF-Delay Timing Relay are available with DPDT outputs. They are tube-based relays with 8- and 11- pin style terminations and provide a reset option.

### Conformity to Standards:

EN 60947-5-1, EN 50081-2, EN 50082-2, IEC 947, VDE 0435, CSA 22.2, UL 508




### Approvals:

CSA Certified, File LR60859, UL Recognized, File E14840, Guide NKCR 2 CE Marked (per EU Low Voltage Directive 73/23 EEC 93/68 EEC: per Electromagnetic Compatibility Directive 89/336 EEC 92/31 EEC 93/681 EEC), ACA

### Your order must include:

- Cat. No. of the timing relay plus suffixes of selection options.
- Cat. No. of socket required.
- If required, Cat. No. of any accessories.

**Bulletin 700 Multi-Function, Multi-Range Dial Timing Relays with Pin Style Terminations**




	Timing Mode	Timing Range	Sockets	Pins	Input Voltage	Contact Outputs	Cat. No.	Factory-stocked Item		
<p><b>Multifunction Timer</b></p>  <p>Cat. No. 700-HR, -HRP, -HRS, -HRT, -HRV</p>	A,D,E, B,B2,C	0.05 s....300 h	700-HN101 700-HN126 700-HN129	11	24...48V AC 12...48V DC	DPDT	700-HR52TU24	✓		
						Transistor	700-HRV52TU24 ①			
							100...240V AC 100...125V DC	DPDT	700-HR52TA17	✓
									700-HRV52TA17 ①	
	A, E,B2,J				700-HN100 700-HN125 700-HN108	8	24...48V AC 12...48V DC	DPDT	700-HRS42TU24	✓
								Transistor	700-HRT4TTU24 ①	
24...48V AC/DC		SPDT Timed + Instantaneous Contact					700-HRP42TU24 ①	✓		
		SPDT Timed + Instantaneous Contact					700-HRP42TA17	✓		
					100...240V AC 100...125V DC	DPDT	700-HRS42TA17	✓		
<p><b>ON-Delay Timer</b></p>  <p>Cat. No. 700-HRM, -HRC</p>	A	0.05 s....300 h	700-HN100 700-HN125 700-HN108	8	24...48V AC/DC	SPDT Timed + Instantaneous Contact	700-HRC12TU24	✓		
						DPDT	700-HRM12TU24	✓		
					100...240V AC	DPDT	700-HRM12TA17	✓		
						SPDT Timed + Instantaneous Contact	700-HRC12TA17	✓		
<p><b>Twin Timer</b></p>  <p>Cat. No. 700-HRF...</p>	B	0.05 s....30 h	700-HN100 700-HN125 700-HN108	8	12V DC	DPDT	700-HRF72DZ12			
		0.05 s....30 h	700-HN100 700-HN125 700-HN108	8	24V AC/DC	DPDT	700-HRF72DU25	✓		
		0.05 s....30 h	700-HN100 700-HN125 700-HN108	8	48...125V DC	DPDT	700-HRF72DZ45			
		0.05 s....30 h	700-HN100 700-HN125 700-HN108	8	100...240V AC	DPDT	700-HRF72DA18	✓		

① Voltage Input


**Timing mode description**

A	D	E	B	B2	C	J
ON-delay	OFF-delay	One Shot	Repeat Cycle OFF-start	Repeat Cycle ON- start	Signal ON/OFF-delay	ON-delay One Shot

**Bulletin 700-HR**  
**Plug-in Timing Relays**  
**Product Selection, Continued**

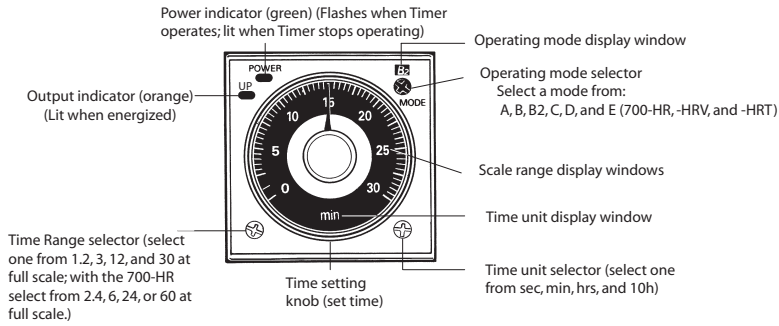
	Timing Mode	Timing Range	Sockets	Pins	Input Voltage	Contact Outputs	Cat. No.	Factory-stocked Item
<b>Twin Timer</b>  Cat. No. 700-HRF...	<b>B2</b>	0.05 s...30 h	700-HN100 700-HN125 700-HN108	8	12V DC	DPDT	700-HRF82DZ12	
		0.05 s...30 h	700-HN100 700-HN125 700-HN108	8	24V AC/DC	DPDT	700-HRF82DU25	
		0.05 s...30 h	700-HN100 700-HN125 700-HN108	8	48...125V DC	DPDT	700-HRF82DZ45	
		0.05 s...30 h	700-HN100 700-HN125 700-HN108	8	100...240V AC	DPDT	700-HRF82DA18	✓
<b>Star-Delta Timer</b>  Cat. No. 700-HRY...	<b>Star-Delta</b>	0.5 s...120 s	700-HN100 700-HN125 700-HN108	8	100...120V AC	SPDT Timed + Instantaneous Contact	700-HRY6FA12	✓
					200...240V AC		700-HRY6FA22	✓
<b>True OFF-Delay Timer</b>  Cat. No. 700-HRQ...	<b>True OFF-Delay</b>	.05 s...12 s	700-HN100 700-HN125 700-HN108	8	100...120V AC	DPDT	700-HRQN2GA12	✓
					200...240V AC	DPDT	700-HRQN2GA22	
			700-HN101 700-HN126 700-HN129	11	100...120V AC	DPDT	700-HRQR2GA12 ①	
					200...240V AC	DPDT	700-HRQR2GA22 ①	
		.05 min... 12 min.	700-HN100 700-HN125 700-HN108	8	100...120V AC	DPDT	700-HRQN2HA12	✓
					200...240V AC	DPDT	700-HRQN2HA22	
		700-HN101 700-HN126 700-HN129	11	100...120V AC	DPDT	700-HRQR2HA12 ①		
				200...240V AC	DPDT	700-HRQR2HA22 ①		
.05 s...12 s	700-HN100 700-HN125 700-HN108	8	24V AC/DC	DPDT	700-HRQN2GU25			
			700-HN101 700-HN126 700-HN129	11	24V AC/DC	DPDT	700-HRQR2GU25 ①	

① Indicates True OFF-delay timer with reset

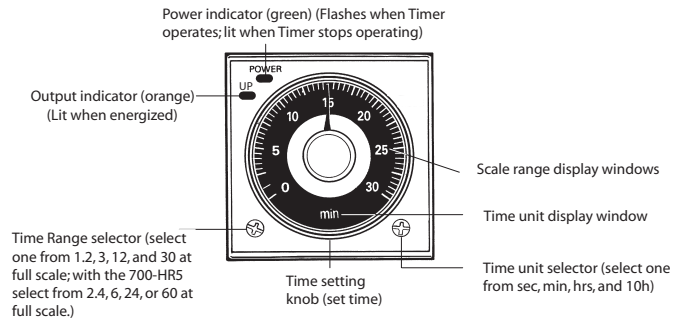
	Timing Mode	Timing Range	Sockets	Pins	Input Voltage	Contact Outputs	Cat. No.	Factory-stocked Item
 <p><b>True OFF-Delay Timer</b> Cat. No. 700-HRQ...</p>	<b>True OFF-Delay</b>	.05 min....12 min.	700-HN100 700-HN125 700-HN108	8	24V AC/DC	DPDT	700-HRQN2HU25	
			700-HN101 700-HN126 700-HN129	11	24V AC/DC	DPDT	700-HRQR2HU25 ①	
		.05 s...12 s	700-HN100 700-HN125 700-HN108	8	48V DC	DPDT	700-HRQN2GZ48	
			700-HN101 700-HN126 700-HN129	11	48V DC	DPDT	700-HRQR2GZ48 ①	
		.05 min....12 min.	700-HN100 700-HN125 700-HN108	8	48V DC	DPDT	700-HRQN2HZ48	
			700-HN101 700-HN126 700-HN129	11	48V DC	DPDT	700-HRQR2HZ48 ①	
		.05 s...12 s	700-HN100 700-HN125 700-HN108	8	100...125V DC	DPDT	700-HRQN2GZ11	
			700-HN101 700-HN126 700-HN129	11	100...125V DC	DPDT	700-HRQR2GZ11 ①	
		.05 min....12 min.	700-HN100 700-HN125 700-HN108	8	100...125V DC	DPDT	700-HRQN2HZ11	
			700-HN101 700-HN126 700-HN129	11	100...125V DC	DPDT	700-HRQRHZ11 ①	

① Indicates True OFF-delay timer with reset

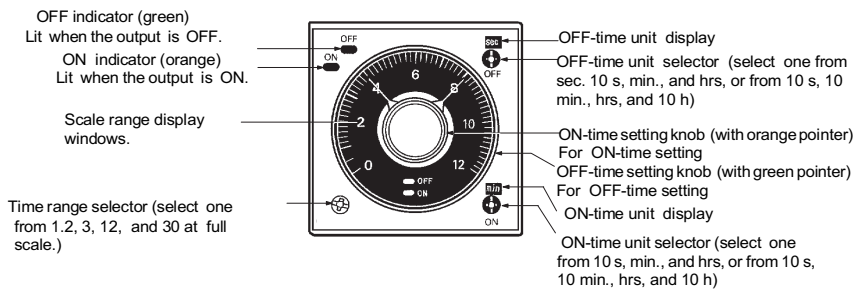
**700-HR Multifunction Timer**



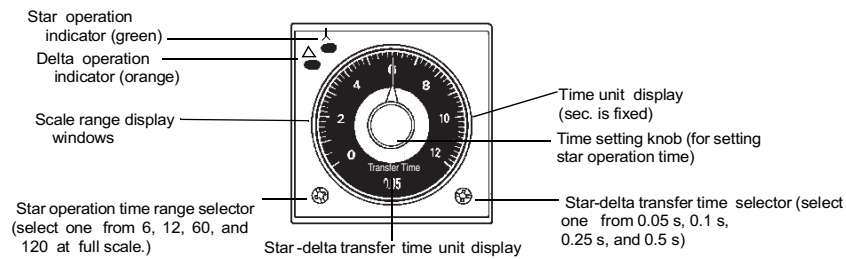
**700-HRC -HRM ON-Delay Timer**



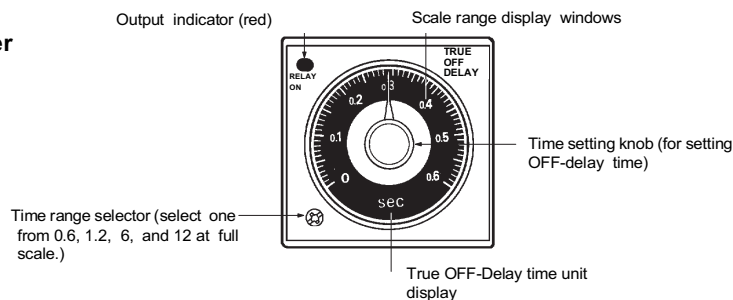
**700-HRF Twin Timer**










**700-HRY Star-Delta Timer**




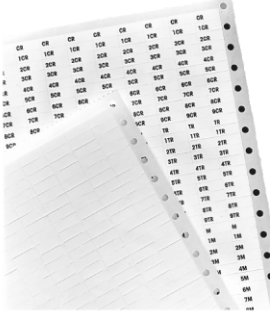


**700-HRQ True OFF-Delay Timer**



	Description	Pkg. Qty.	Cat. No.	Factory Stock Item
 Cat. No. 700-HN100	<b>Screw Terminal Tube Base Sockets — Panel or DIN Rail Mounting Guarded Terminal Construction</b> 8-pin for use with Bulletin 700-HR and 700-HX timing relays. Order must be for 10 sockets or multiples of 10.	10	700-HN100	✓
 Cat. No. 700-HN125	<b>Screw Terminal Tube Base Sockets — Panel or DIN Rail Mounting Open Style Construction</b> 8-pin for use with Bulletin 700-HRM, and -HRC timing relays. Order must be for 10 sockets or multiples of 10. No retainer clip required.	10	700-HN125	✓
 Cat. No. 700-HN101	<b>Screw Terminal Tube Base Sockets — Panel or DIN Rail Mounting Guarded Terminal Construction</b> 11-pin for use with Bulletin 700-HR timing relays. Order must be for 10 sockets or multiples of 10. No retainer clip required.	10	700-HN101	✓
 Cat. No. 700-HN126	<b>Screw Terminal Tube Base Sockets — Panel or DIN Rail Mounting Guarded Terminal Construction</b> 11-pin for use with Bulletin 700-HR timing relays. Order must be for 10 sockets or multiples of 10.	10	700-HN126	✓
 Cat. No. 199-DR1	<b>DIN Rail Mounting Pack</b> Standard 35 x 7.5 mm DIN Rail, 1 meter long, 10 rails per package. Order must be for 10 rails or multiples of 10.	10	199-DR1	✓
 Cat. No. 700-HN108	<b>Specialty Socket</b> 8-pin backwired socket with solder terminals for use with Bulletin 700-HR timing relays. Order must be for 10 sockets or multiples of 10.	10	700-HN108	✓
 Cat. No. 700-HN129	<b>Specialty Socket</b> 11-pin backwired socket with solder terminals for use with Bulletin 700-HR timing relays. Order must be for 10 sockets or multiples of 10.	10	700-HN129	✓

**Bulletin 700-HR**  
**Plug-in Timing Relays**  
**Accessories, Continued**

	Description	Pkg. Qty.	Cat. No.	Factory-stocked Item
 Cat. No. 700-HN130	<b>Frame Adapter</b> For flush or door mounting of all Bulletin 700-HR timers.	1	700-HN130	✓
 Sample Retainer Clips	<b>Retainer Clip for Cat. Nos. 700-HN100 and -HN101 Sockets with all 700-HR Timing Relays</b> Secures timer in socket. Order must be for 10 clips or multiples of 10.  Note: Not required for installation	10	700-HN131	✓
 Cat. No. 700-HN132	<b>Protective Cover</b> Helps prevent tampering of timing and mode settings. Provides a degree of protection against water and dirt from entering the front of the relay. For use with all Bulletin 700-HRs and -HX timing relays.	1	700-HN132	✓
	<b>Pre-printed identification tags</b> — contains 10 sheets of pre-printed and blank tags. Each sheet contains 13 sets of the markings CR...9CR, TR...9TR, M...9M, F, R, 1S, and 117 blank tags. Tags are peel-off with sticky backing for easy placement on relays.	10	700-N40	
	<b>Blank identification tags</b> — contains 10 sheets of blank identification tags for customer specialized printing. Each sheet contains 546 blank tags. Tags are peel-off with sticky backing for easy placement on relays.	10	700-N41	

**Bulletin 700-HR Multi-function, Multi-Range Dial Timing Relay, Socket, Retainer Clip Reference Chart**

Timer Type	Socket Cat. No.	Retainer Clip Cat. No.
700-HR, HRQR2, HRV HRT6	700-HN101 ②	700-HN131
	700-HN126 ②	Not Required ❶
	700-HN129 ②	Not Applicable
700-HRC/HRF/HR5, HRT4, HRM, HRP	700-HN100 ③	700-HN131(See note above)
	700-HN108 ③	Not Applicable
	700-HN125 ③	Not Required ❶

- ❶ Design of these sockets holds the timing relays securely and does not require retainer clips.
- ❷ 11 pins.
- ❸ 8 pins.

	700-HR, -HRS, -HRV	700-HRP	700-HRC	700-HRM	700-HRF	700-HRY	700-HRQ	700-HRT (Transistor Outputs)	
<b>Electrical Ratings</b>									
Pilot Duty Rating	NEMA B300							—	
Thermal Current ( $I_{th}$ )	5 A							100 mA	
►][◄ 120V AC Make 240V AC	30 A							—	
◄][► 120V AC Break 240V AC	15 A							—	
	3 A							—	
	1.5 A							—	
Hp at 120V	1/6 Hp	1/4 Hp		1/6 Hp		1/4 Hp	1/6 Hp	—	
Hp at 240V	1/3 Hp							—	
Accuracy of operating time	±0.2% FS max. (±0.2%±10 ms max. in a range of 1.2 s)								
Setting error	±5% FS ±50 ms (The value is ±5% FS +100 ms to -0 ms max. when the C, D, or G mode signal of the 700-HRVs are OFF.)								
Reset time	Min. power-opening time: 0.1 s max. Min. pulse width: 0.05 s (cat nos. 700-HR52TA17, 700-HR52TU24, 700-HRT6TTU24)								
Reset voltage	10% max. of rated voltage								
Influence of voltage	±0.2% FS max. (±0.2%±10 ms max. in a range of 1.2 s)								
Influence of temperature	±1% FS max. (±1%±10 ms max. in a range of 1.2 s)								
<b>Design Specifications</b>									
Dielectric strength	2,000V AC (1,000 VAC for 700-HRT), 50/60 Hz for 1 min. (between current-carrying metal parts and exposed non-current-carrying metal parts)								
	2,000V AC (1,000 VAC for 700-HRT), 50/60 Hz for 1 min. (between control output terminals and operating circuit)								
	2,000V AC, 50/60 Hz for 1 min. (between contacts of different polarities)								
	1,000V AC, 50/60 Hz for 1 min. (between contacts not located next to each other)								
	2,000V AC, 50/60 Hz for 1 min. (between input and control output terminals and operation circuit)								
<b>Mechanical</b>									
Vibration resistance	Malfunction: 10...55 Hz with 0.5 mm double amplitude each in three directions for ten minutes each								
Shock resistance	Malfunction: 100 m/s <sup>2</sup> (10 G)		98 m/s <sup>2</sup> (10 G)		294 m/s <sup>2</sup> (10 G)	98 m/s <sup>2</sup> (10 G)	100 m/s <sup>2</sup> (10 G)		
<b>Environmental</b>									
Noise immunity	±1.5 kV for ±600V DC				±400V for 12V DC		±1kV for 48V DC	±1.5 kV for ±600 V DC	
Static immunity	Malfunction: 8 kV								
Ambient temperature	Operating: -10°...55°C (with no icing)								
	Storage: -25°...65°C (with no icing)								
Ambient humidity	Operating: 35...85%								
<b>Construction</b>									
Life expectancy (operations min.)	Mechanical: 20,000,000. (under no load at 1,800 operations/h)					Mech: 10 <sup>7</sup>		Mech: 20 <sup>7</sup>	
	Electrical: 100,000 (5 A at 250V AC, resistive load at 1,800 operations/h)					Electrical: 10 <sup>4</sup>		Electrical: 10 <sup>4</sup>	
EMC	(EMI)		EN50081-2						
	Emission Enclosure:		EN55011 Group 1 class A						
	Emission AC Mains:		EN55011 Group 1 class A						
	(EMS)		EN50082-2						
	Immunity ESD:		EN61000-4-2:		4 kV contact discharge (level 2) 8 kV air discharge (level 3)				
	Immunity RF-interference from AM Radio Waves:		ENV50140: 10 V/m (80 MHz...1 GHz) (level 3)				ENV50204: 10 V/m (900±5 MHz) (level 3)		
	Immunity Conducted Disturbance:		ENV50141:		10 V (0.15...80 MHz) (level 3)				
Immunity Burst:		EN61000-4-4:		2 kV power-line (level 3)					
Immunity Surge:		EN61000-4-5		2 kV I/O signal-line (level 4) 1 kV line to line 2 kV line to ground (level 3)					
Degree of protection	IP40 (panel surface)								
Weight	Approx. 90 g								



# Plug-in Timing Relays

## Bulletin 700-HR Timer Wiring Diagrams and Timing Charts

### Multifunction and ON-Delay Timer

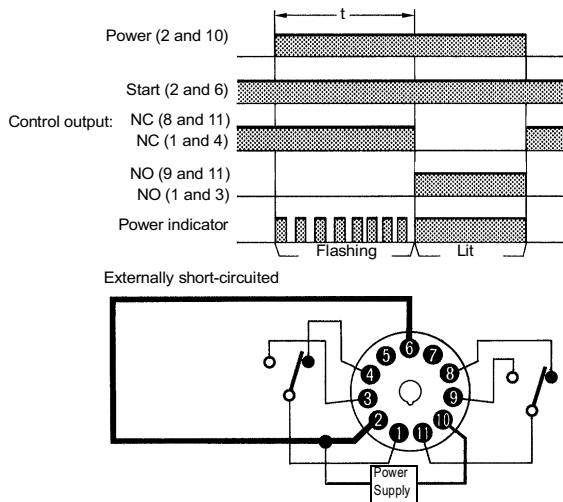
#### Application Examples

##### A Mode: Signal ON-Delay

ON-delay operation (A mode) is a basic mode.

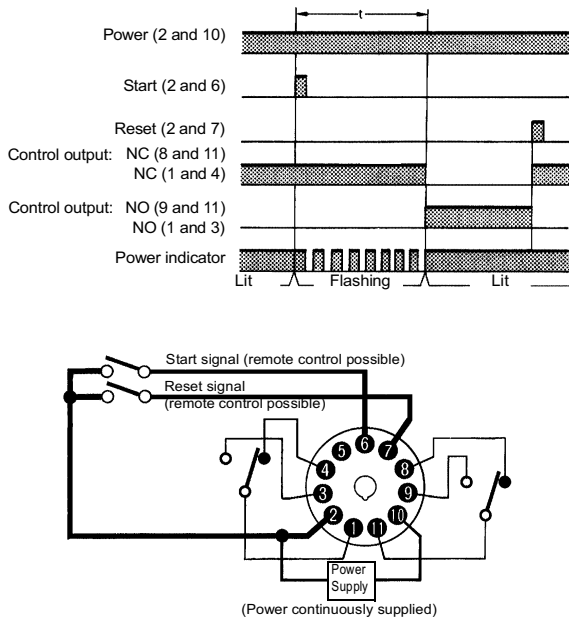
##### 1. Power-ON Start/Power-OFF Reset

The Power-ON start/Power-OFF reset operation is a standard operating method.



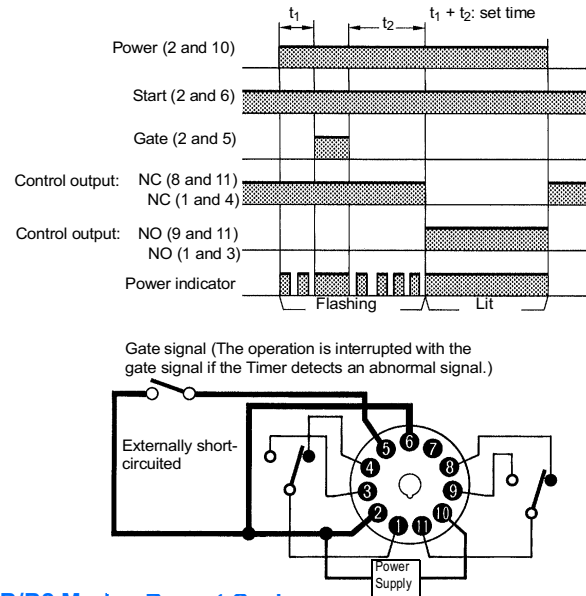
##### 2. Signal Start/Signal Reset

The Signal start/Signal reset operation is useful for remote control of the Timer.



##### 3. Control of Integrated Time with Gate Signal

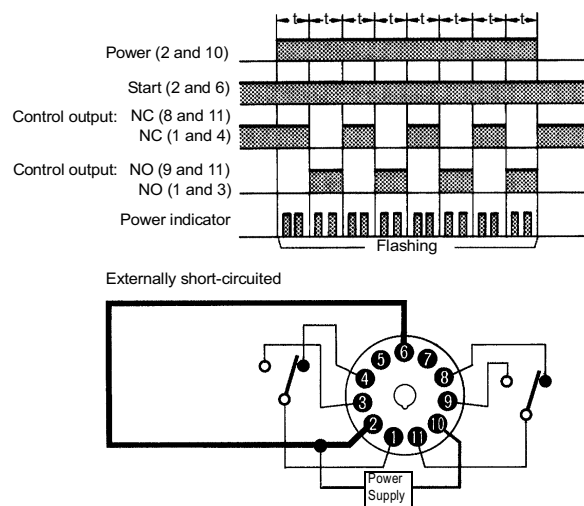
With a gate signal, the Power-ON start operation and Signal start operation can be controlled (the operation can be interrupted).



##### B/B2 Mode: Repeat Cycle

The Repeat Cycle operation in the B and B2 modes can be effectively applied to lamp or buzzer (ON and OFF) alarms or the monitoring of an intermittent operation with a display.

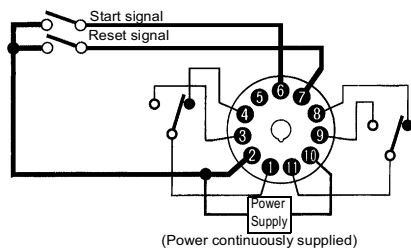
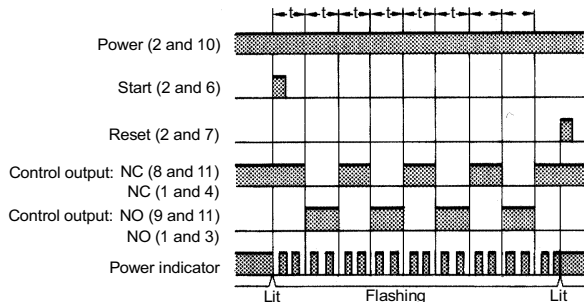
##### 1. Power-ON Start/Power-OFF Reset (in B Mode)



**Multifunction and ON-Delay Timer, Continued**

**2. Signal Start/Signal Reset (in B Mode)**

If there is an abnormal signal, flashing starts. When the abnormal condition is restored, a reset signal stops the display flashing.

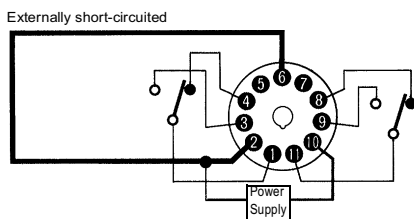
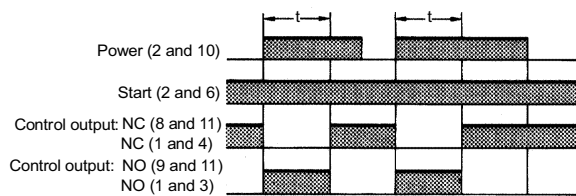


**C Mode: Signal ON/OFF-Delay**

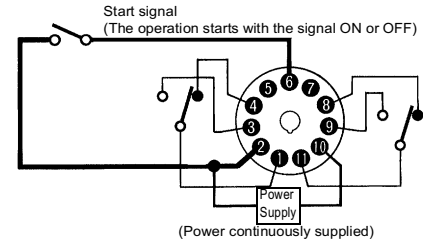
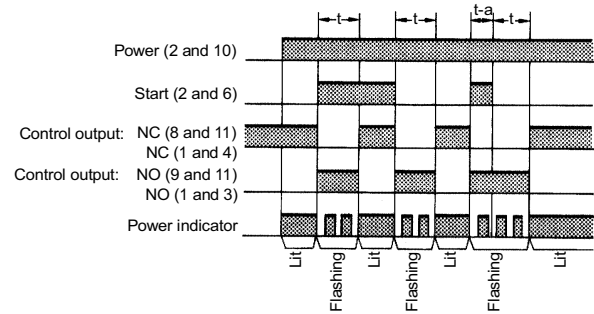
The Signal ON-/OFF-delay operation (C mode) is useful for the control of distribution of products on a production line into boxes by the specified number or time.

**1. Power-ON Start/Instantaneous Operation/Time-Limit Reset**

A set of these functions is useful for the operation of a machine for a specified period when power is ON.



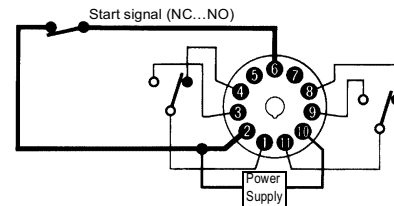
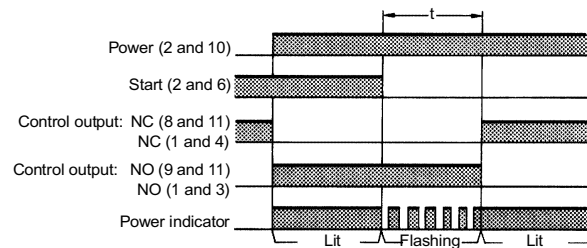
**2. Signal-ON-OFF Start/Instantaneous Operation/Time-Limit Reset**



**D Mode: Signal OFF-Delay**

Signal OFF-delay operation (D mode) can be effectively used to keep a load operating for a certain period. For example, this function enables the cooling fan for a lamp or heater to operate for a certain period after the lamp or heater is switched OFF.

**1. Power-ON Start/Instantaneous Operation/Time-Limit Reset**

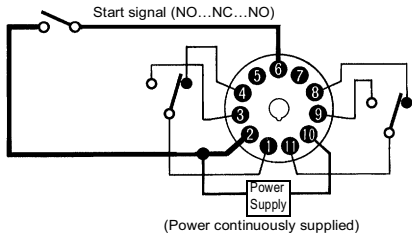
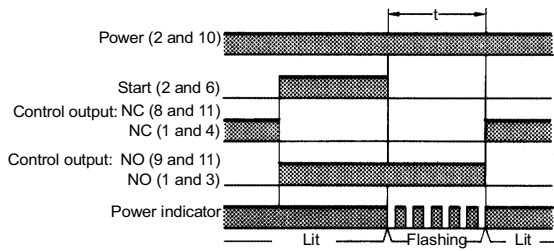


# Plug-in Timing Relays

## Bulletin 700-HR Timer Wiring Diagrams and Timing Charts, Continued

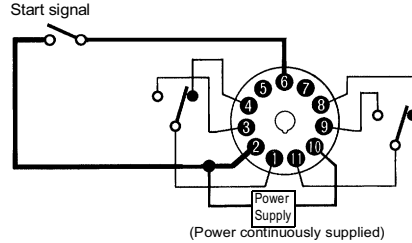
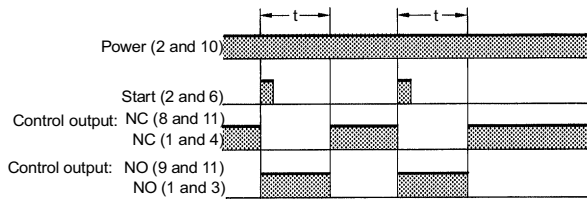
### Multifunction and ON-Delay Timer, Continued

#### 2. Signal Start/Instantaneous Operation/Time-Limit Reset



#### 2. Signal Start/Instantaneous Operation/Time-Limit Reset

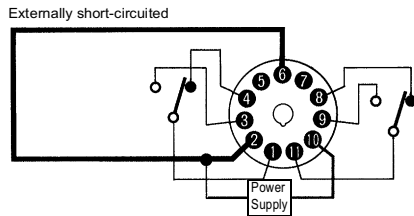
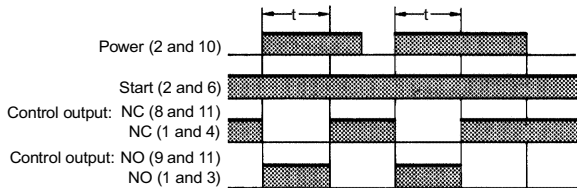
This function is useful for the repetitive control such as the filling of liquid for a specified period after each Signal start input.



### E Mode: One Shot

#### 1. Power-ON Start/Instantaneous Operation/Time-Limit Reset

This function is useful for the operation of a machine for a specified period after power is ON.

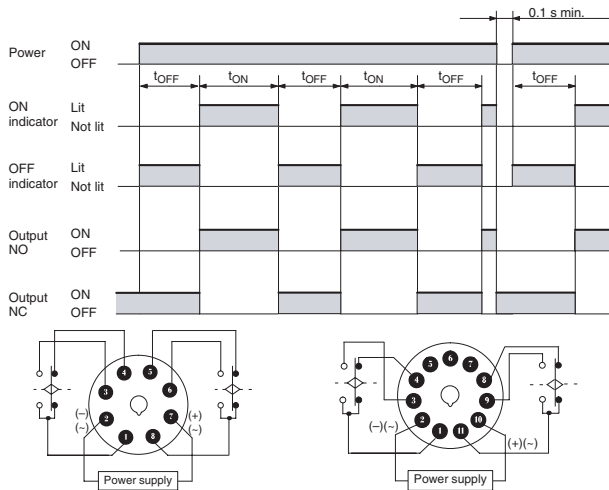


700-HRF Twin Timer, 700 -HRY Star-Delta Timer, and 700-HRQ Off-Delay Timer

**B Mode: Repeat Cycle Off-start (700-HRF)**

The Repeat Cycle operation in the B mode can be effectively applied to lamp or buzzer (ON and OFF) alarms or the monitoring of an intermittent operation with a display.

**1. Power-ON Start/Power-OFF Reset (in B Mode)**

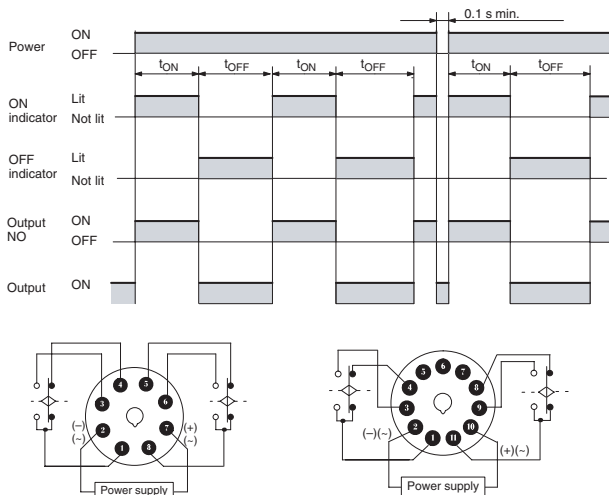


**B2 Mode: Repeat Cycle On-start (700-HRF)**

The Repeat Cycle operation in the B2 mode can be effectively applied to lamp or buzzer (ON and OFF) alarms or the monitoring of an intermittent operation with a display

**B2 Mode: Repeat Cycle On-start (700-HRF)**

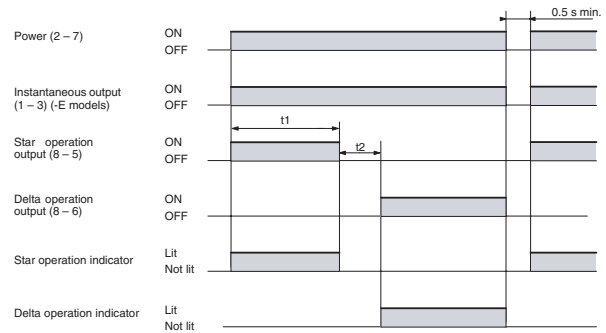
The Repeat Cycle operation in the B2 mode can be effectively applied to lamp or buzzer (ON and OFF) alarms or the monitoring of an intermittent operation with a display



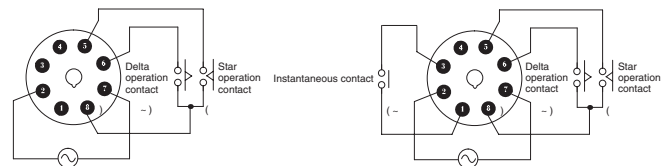
**E Mode: One Shot (700-HRY)**

**1. Power-ON Start/Instantaneous Operation/Time-Limit Reset**

This function is useful for the operation of a machine for a specified period after power is ON.



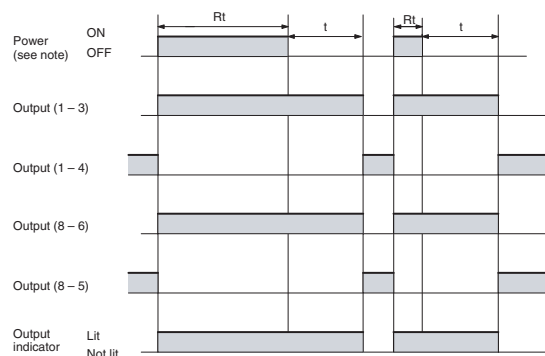
t1: Star operation time setting  
 t2: Star-delta transfer time



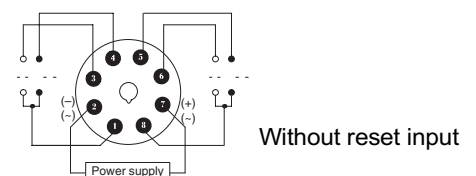
**D Mode: True OFF-Delay (700-HRQ)**

Signal OFF-delay operation (D mode) can be effectively used to keep a load operating for a certain period. For example, this function enables the cooling fan for a lamp or heater to operate for a certain period after the lamp or heater is switched OFF.

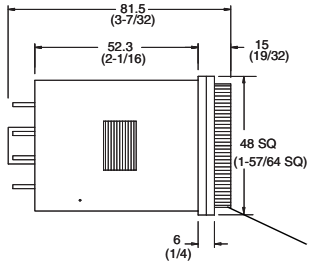
**1. Power-ON Start/Instantaneous Operation/Time-Limit Reset**



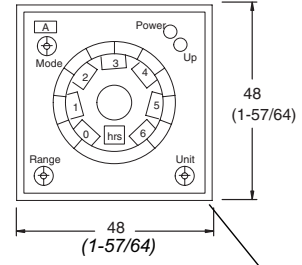
t: Set time  
 Rt: Minimum Power On



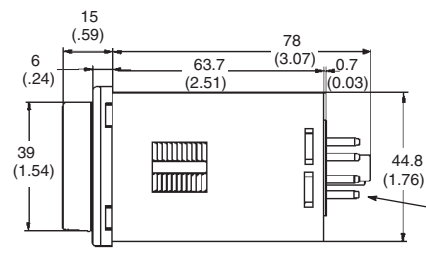
**Bulletin 700-HR**  
**Plug-in Timing Relays**  
 Approximate Dimensions



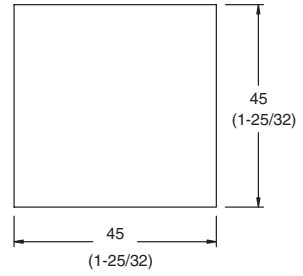
Cat. No. 700-HR, -HRM, -HRC,  
 -HRF,  
 -HRS, -HRV, -HRP  
**Timing Relay**



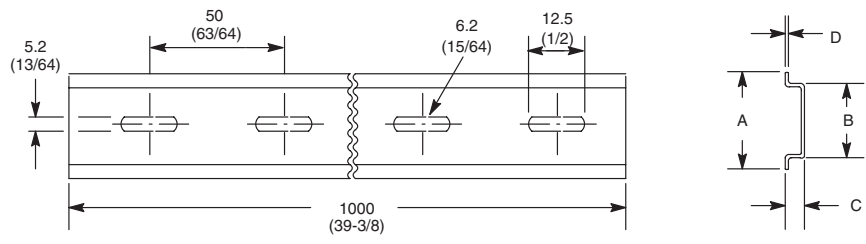
Cat. No. 700-HR.../HRM.../HRC.../HRF.../HRS.../HRV.../  
 -HRP.../HRY.../HRQ  
**Timing Relays**



Cat. No. 700-HRY,  
 700-HRQ  
**Timing Relay**



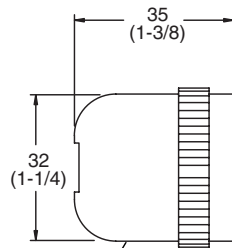
Cat. No. 700-HR...  
**Panel Cutout**



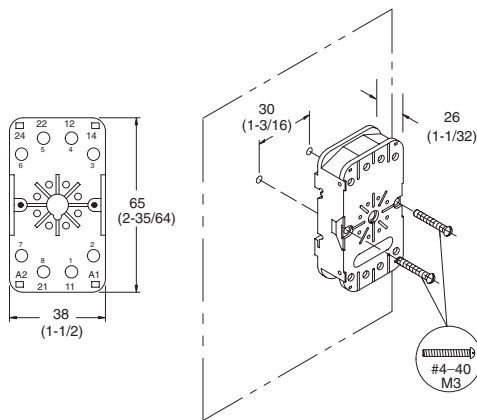
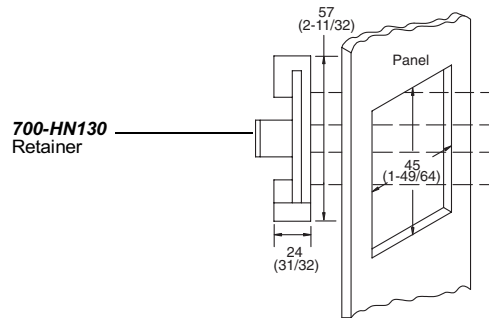
Cat. No. 199-DR1 DIN Mounting Rail Series B  
 Cat. No. 199-DR4 DIN Mounting Rail Series B Has No Mounting Holes

Cat. No.	A	B	C	D	Approx. Shipping Wt.
199-DR1	35 (1-3/8)	27 (1-1/16)	7.5 (19/64)	1.02 (1/64)	1.85 kg (4.07 lbs.) (10/pkg)
199-DR4	35 (1-3/8)	27 (1-1/16)	15 (19/32)	2.3 (3/32)	3.68 kg (8 lbs.) (5/pkg)

Dimensions are shown in millimeters (inches). Dimensions are not intended for manufacturing purposes.

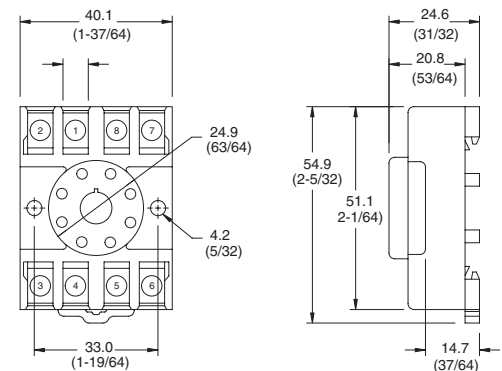


Cat. No. 700-HN129 — 11-Pin  
 Cat. No. 700-HN108 — 8-Pin  
 Socket



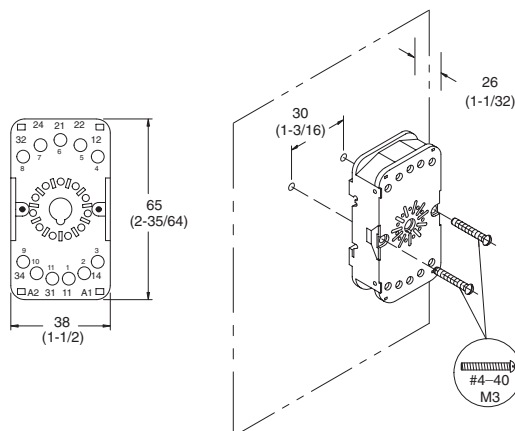
Cat. No. 700-HN100 Panel Mounting

Wire Size: 2 x 2.5 mm<sup>2</sup>  
 Single Wire — Up to #12 AWG  
 Double Wire — 2 x 2.5 mm<sup>2</sup> (#2–14 AWG... #2–20 AWG)  
 (Either Solid or Stranded)  
 Strip Length: 9 mm (3/8 in.) — Torque: 0.8 Nm (7 lb.-in.)



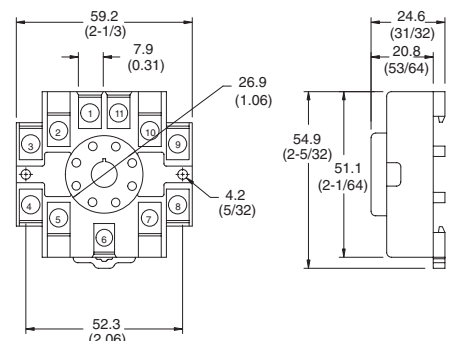
Cat. No. 700-HN125 ●

Wire Size: 2 x 2.5 mm<sup>2</sup>  
 Single Wire — Up to #12 AWG  
 Double Wire — 2 x 2.5 mm<sup>2</sup> (#2–14 AWG... #2–20 AWG)  
 (Either Solid or Stranded)  
 Strip Length: 9 mm (3/8 in.) — Torque: 0.8 Nm (7 lb.-in.)



Cat. No. 700-HN101 Panel Mounting

Wire Size: 2 x 2.5 mm<sup>2</sup>  
 Single Wire — Up to #12 AWG  
 Double Wire — 2 x 2.5 mm<sup>2</sup> (#2–14 AWG... #2–20 AWG)  
 (Either Solid or Stranded)  
 Strip Length: 9 mm (3/8 in.) — Torque: 0.8 Nm (7 lb.-in.)



Cat. No. 700-HN126 ●

Wire Size: 2 x 2.5 mm<sup>2</sup>  
 Single Wire — Up to #12 AWG  
 Double Wire — 2 x 2.5 mm<sup>2</sup> (#2–14 AWG... #2–20 AWG)  
 (Either Solid or Stranded)  
 Strip Length: 9 mm (3/8 in.) — Torque: 0.8 Nm (7 lb.-in.)

● Cat. No. 199-FSM Surge Suppressors fit on the coil terminals. See page 195.