HRDS SERIES

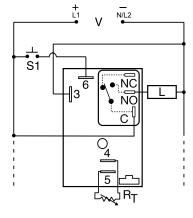
Single ShotTimer



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Wiring Diagram



NO = Normally Open S1 = Initiate Switch L = Load

C = Common, Transfer Contact

NOTE: A knob, or terminals 4 & 5 are only included on adjustable units. R_T is used when external adjustment is ordered. Relay contacts are not isolated.

Description

The HRDS Series combines an electromechanical relay output with microcontroller timing circuitry. It offers 12 to 230V operation in five options and factory fixed, onboard or external adjustable time delays with a repeat accuracy of $\pm 0.5\%$. The output contact rating allows for direct operation of heavy loads, such as compressors, pumps, blower motors, heaters, etc. This series is ideal for OEM applications where cost is a factor.

Operation (Single Shot)

Input voltage must be applied before and during timing. Upon momentary or maintained closure of the initiate switch, the output relay energizes for a measured interval of time. At the end of the delay, the output de-energizes. Opening or reclosing the initiate switch during timing has no affect on the time delay. The output will energize if the initiate switch is closed when input voltage is applied.

Reset: Reset occurs when the time delay is complete and the initiate switch is opened. Loss of input voltage resets the time delay and output.

Features & Benefits

FEATURES	BENEFITS	
Microcontroller based	Repeat Accuracy + / - 0.5%	
Compact, low cost design	Allows flexiblility for OEM applications	
Isolated, 30A, SPDT, NO output contacts	Allows direct operation of heavy loads: compressors, pumps, blower moters, heaters.	
Encapsulated	Protects against shock, vibration, and humidity	

Accessories



P1004-95, P1004-95-X Versa-Pot

Panel mountable, industrial potentiometer recommended for remote time delay adjustment.



P1023-6 Mounting bracket The 90° orientation of mounting slots makes installation/removal of modules quick and easy.

P0700-7 Versa-Knob Designed for 0.25 in (6.35 mm) shaft of Versa-Pot. Semi-gloss industrial black finish.



P1015-13 (AWG 10/12), **P1015-64** (AWG 14/16) **Female Quick Connect** These 0.25 in. (6.35 mm) female terminals are

constructed with an insulator barrel to provide strain relief.

P1015-18 Quick Connect to Screw Adapter Screw adapter terminal designed for use with all modules with 0.25 in. (6.35 mm) male quick connect terminals.

Ordering Information

MODEL	INPUT VOLTAGE	ADJUSTMENT	TIME DELAY
HRDS120	12VDC	Onboard	0.1 - 10s
HRDS313M	24VDC	Fixed	3m
HRDS321	24VDC	Onboard	1 - 100s
HRDS421	120VAC	Onboard	1 - 100s
HRDS430	120VAC	External	0.1 - 10s

If you don't find the part you need, call us for a custom product 800-843-8848









Accessories



C103PM (AL) DIN Rail

35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.

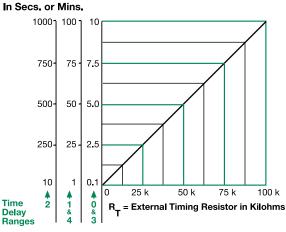


P1023-20 DIN Rail Adapter

Allows module to be mounted on a 35 mm DIN type rail with two #10 screws.

*8-pin models UL listed when used in combination with P1011-6 socket only.

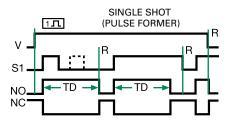
External Resistance vs. Time Delay



This chart applies to externally adjustable part numbers. The time delay is adjustable over the time delay range selected by varying the resistance across the RT terminals; as the resistance increases the time delay increases.

When selecting an external RT, add the tolerances of the timer and the RT for the full time range adjustment. Examples: 1 to 50 S adjustable time delay, select time delay range 1 and a 50 K ohm RT. For 1 to 100 S use a 100 K ohm RT.

Function Diagram



V = Voltage S1 = Initiate Switch NO = Normally Open Contact NC = Normally Closed Contact TD = Time Delay R = Reset

Specifications

Specification	ons			
Time Delay				
Туре		Microcontroller circuitry		
Range		0.1s - 100m in 5 adjustable ranges or fixed		
Repeat Accuracy		$\pm 0.5\%$ or 20 ms, whichever is greater		
Tolerance		±0.5 /0 01 20 113, Whichew		
	tion)	10/ E0/		
(Factory Calibrat	11011)	±1%, ±5%		
Reset Time		≤ 150ms		
Initiate Time		≤ 20ms		
Time Delay vs Ter	np.			
& Voltage		±2%		
Input				
Voltage		12 or 24VDC; 24, 120, or 230VAC		
Tolerance				
12VDC & 24VDC		-15% - 20%		
24 to 230VAC		-20% - 10%		
AC Line Frequency		50/60 Hz		
Power Consumption		$AC \le 4VA$; $DC \le 2W$		
Output				
Туре		Electromechanical relay		
Form		SPDT, non-isolated		
Ratings		SPDT-NO	SPDT-NC	
General Purpose	125/240140		15A	
•				
Resistive	125/240VAC		15A	
	28VDC	20A	10A	
Motor Load	125VAC	1 hp*	1/4 hp**	
	240VAC	2 hp**	1 hp**	
Life		Mechanical - 1 x 10 ⁶ ;		
		Electrical - 1 x 10 ⁵ , *3 x 10)4, **6,000	
Protection				
Surge		IEEE C62.41-1991 Level A		
Circuitry		Encapsulated		
Dielectric Breakd	lown	≥ 2000V RMS terminals to mounting surface		
Insulation Resistance		≥ 100 MΩ	Ū	
Polarity		DC units are reverse polarity protected		
Mechanical			ity protoctou	
Mounting		Surface mount with one #	10 (M5 x 0 8) screw	
Dimensions		H 76.7 mm (3"); W 51.3 mm (2");		
Dimensions		D 38.1 mm (1.5")		
Termination		0.25 in. (6.35 mm) male quick connect terminals		
Environmental		0.25 m. (0.55 mm) male qu		
	-			
Operating/Storag	e	400 - 0000 - 100		
		-40° to 60°C/-40° to 85°C		
Humidity		050/ 1.1		
-		95% relative, non-conden	sing	
Weight		95% relative, non-conden ≅ 3.9 oz (111 g)	sing	

单击下面可查看定价,库存,交付和生命周期等信息

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