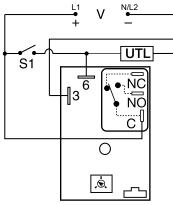




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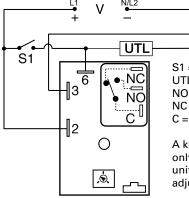
Wiring Diagram



HRPS Relay contacts are non-isolated.

S1 = Initiate Switch UTL = Untimed Load (optional) NO = Normally Open NC = Normally Closed C = Common

A knob, or terminals 4 & 5 are only included on adjustable units. R₊ is used when external adjustment is ordered.



HRIS Relay contacts are isolated.

S1 = Initiate Switch UTL = Untimed Load (optional) NO = Normally Open NC = Normally Closed C = Common

A knob, or terminals 4 & 5 are only included on adjustable units. R_r is used when external adjustment is ordered.

Description

The HRPS/HRIS Series combines an electromechanical relay output with microcontroller timing circuitry. It is a factory programmed module available in any 1 of 13 standard functions. It offers 12 to 240V operation in two universal ranges and factory fixed, onboard, or external adjustable time delays with a repeat accuracy of ±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. The HRPS has non-isolated SPDT relay contacts, and the HRIS has isolated SPDT relay contacts. Both offer the most popular timer functions in the industry.

Operation (Interval)

Upon application of input voltage, the time delay begins. The output (relay or solid state) energizes during the time delay. At the end of time delay the output de-energizes and remains de-energized until input voltage is removed.

Reset: Removing input voltage resets the time delay and output.

Features & Benefits

FEATURES	BENEFITS			
Microcontroller based	Repeat Accuracy + / - 0.5% , factory calibration +/- 2%			
Compact design	Allows flexiblility for OEM applications			
30A, SPDT, Normally Open output contacts	Allows for direct operation of heavy loads			
Encapsulated	Protects against shock, vibration, and humidity			

Ordering Information

MODEL	INPUT VOLTAGE	ADJUST.	TIME DELAY	FUNCTION
HRISW21FT	24 - 240VAC/24 - 110VDC	Onboard	0.1 - 10s	Alternating
HRISW27I	24 - 240VAC/24 - 110VDC	Onboard	0.1 - 10h	Interval
HRPSD12HI	12 - 48VDC	Fixed	2h	Interval
HRISW25B	24 - 240VAC/24 - 110VDC	Onboard	1 - 100m	Delay on break

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HRPS / HRIS SERIES



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.



P1015-64 (AWG 14/16), P1015-13 (AWG 10/12) Female Quick Connect These 0.25 in. (6.35 mm) female terminals are constructed with an insulator barrel to provide

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.



C103PM (AL) DIN Rail

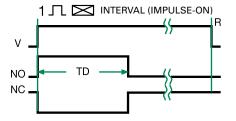
strain relief.

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

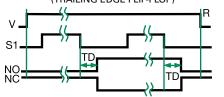


P1023-20 DIN Rail Adapter Allows module to be mounted on a 35 mm DIN type rail with two #10 screws.

Function Diagrams



ALTERNATING RELAY (TRAILING EDGE FLIP-FLOP)



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

Specifications

Time Delay Type Range **Repeat Accuracy** Tolerance (Factory Calibration) **Reset Time Initiate Time** Time Delay vs Temp. & Voltage Input Voltage Tolerance 12 to 48VDC 24 to 110VDC/240VAC **AC Line Frequency Power Consumption** Output Type Form Ratings **General Purpose** 125/240VAC Resistive 125/240VAC 28VDC Motor Load 125VAC 240VAC Life

Protection

Surge Circuitry **Isolation Voltage Insulation Resistance** Polarity **Mechanical** Mounting Dimensions

Termination **Environmental**

Operating/Storage Temperature

Humidity Weight

Microcontroller circuitry 0.1s - 1000h in 9 adjustable ranges or fixed ±0.5% or 20ms, whichever is greater

+2% ≤ 150ms ±2%

≤ 20ms

12 to 48VDC; 24 to 240VAC/24 to 110VDC

-15% - 20% -20% - 10% 50/60Hz $AC \le 4VA; DC \le 2W$

Electromechanical relay SPDT SPDT-NO SPDT-NC 30A 15A 30A 15A 20A 10A

1/4 hp** 1 hp* 2 hp** 1 hp** Mechanical - 1 x 106 Electrical - 1 x 105, *3 x 104, **6,000

IEEE C62.41-1991 Level A Encapsulated ≥ 1500V RMS input to output; isolated units $\geq 100 \text{ M}\Omega$

DC units are reverse polarity protected

Surface mt. with one #10 (M5 x 0.8) screw H 76.2 mm (3.0"); W 50.8 mm (2.0"); **D** 38.1 mm (1.5") 0.25 in. (6.35 mm) male quick connects

-40° to 60°C / -40° to 85°C 95% relative, non-condensing ≈ 3.9 oz (111 g)

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