HRPS/HRIS Series Single Function
Time Delay Relay (30A SPDT)

US Patent 6708135

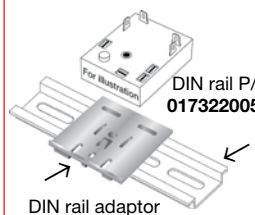
- 30 A SPDT N.O. Output Contacts
- Factory Programmed
- Universal Voltage
  24 ... 240 V AC ... 110 V DC
- Encapsulated Circuitry
- Onboard, External Adjust or Fixed Time Delay
- Delays from 100 ms...1000 h in 9 ranges
- +/-0.5% Repeat Accuracy

Complete Product Details:
http://www.ssac.com/pp1.htm

Accessories

100 K Ohm External adjust potentiometer P/Ns:
P1004-95 (fig A)
P1004-95-X (fig B)

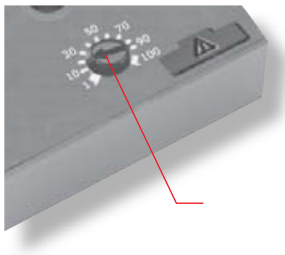
Versa-knob P/N: **P0700-7**



DIN rail P/Ns:
017322005 (Steel)

DIN rail adaptor P/N: **P1023-20**

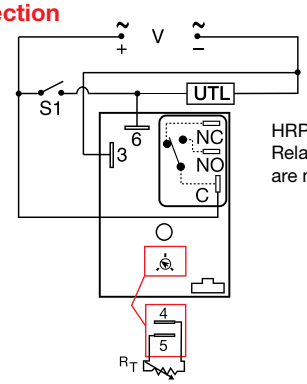
See accessory pages.



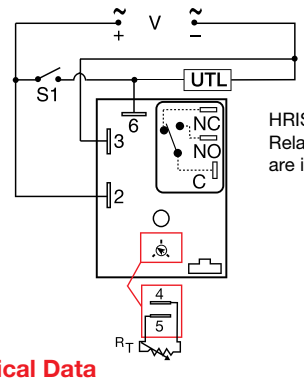
The HRPS/HRIS Series combines a 30 amp rated electromechanical relay output with any 1 of 14 standard functions. Modules are manufactured without the function assigned. When an order is received, the function and time delay software are added. This approach allows Quick Ship delivery on all time ranges and functions The 30A res. 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. HRPS has non-isolated SPDT relay contacts, and HRIS has isolated SPDT relay contacts.

Choose from 1 of 14 standard single functions, fixed or onboard or external adjustment, and 9 time ranges. All available through the QuickShip program.

Connection



HRPS Series
Relay contacts
are not isolated.



HRIS Series
Relay contacts
are isolated.

**Function Chart

	Code
Delay on Make	M
Delay on Break	B
Recycle (ON Time First, Equal Times)	RE
Recycle (OFF Time First, Equal Times)	RD
Single Shot	S, SD
Interval	I
Trailing Edge Single Shot	TS
Inverted Single Shot	US
Inverted Delay on Break	UB
Accumulative Delay on Make	AM
Motion Detector/Retriggerable Single Shot	PSD. PSE
Alternating Relay	FT
Flip Flop (leading edge)	F

See page 9 for function time diagrams

NOTE: A knob is supplied for adjustable units, or RT terminals for 4 & 5 for external adjustment. Select a 100K ohm potentiometer for full time range adjustment. The untimed load is optional. S1 is not used for some functions. Dashed lines are internal connections.

V = Input Voltage S1 = Initiate Switch
C = Common UTL = Optional Untimed Load
NO = Normally Open NC = Normally Closed

Technical Data

Output		
Ratings:	SPDT-N.O	SPDT-N.C.
General Purpose 125/240 V AC	30 A	15 A
Motor Load 125 V AC	1 hp*	1/4 hp**
240 V AC	2 hp**	1 hp**
Life	Electrical -- 1 x 105, *3 x 104, **6,000	
Mechanical		
Mounting	Surface mt. with one #10 (M5 x 0.8) screw	
Package	3 x 2 x 1.5 in (76.7 x 51.3 x 38.1 mm)	
Termination	0.25 in. (6.35 mm) male quick connects	

Ordering Table

HRPS/HRIS Series

X — Input
- W - 24 ... 240 V AC
  24 ... 110 V DC
- D - 12 ... 48 V DC †

X — Adjustment
- 1 - Fixed
- 2 - Onboard Adjust
- 3 - External Adjust

X — Time Delay *
- 1 - 0.1 ... 10 s
- 2 - 1 ... 100 s
- 3 - 10 ... 1000 s
- 4 - 0.1 ... 10 m
- 5 - 1 ... 100 m
- 6 - 10 ... 1000 m
- 7 - 0.1 ... 10 h
- 8 - 1 ... 100 h
- 9 - 10 ... 1000 h

X — Function **
Specify Function (Refer to Function Chart for Code)

*If Fixed Delay is selected, insert delay [0.1 ... 1000] followed by (S) secs., (M) mins., or (H) hrs.

†**Note:** Grayed option is available in standard lead time.

Example P/N:
HRPSW23S = Universal AC/DC voltage, onboard adjustment, 10...1000 sec., single shot function
HRISW10.5SB = Universal AC/DC voltage, isolated contacts, fixed delay of 0.5 sec., delay on break function