

FEATURES

- 12 Timing Functions
- 7 Timing Ranges, 100mS – 100Hrs
- DPDT rated 8A @ 250Vac
- Compact DIN rail mounting 18mm wide
- Dual LED indication with flashing LED while timing.

RS PRO DPDT Multi-Function Timer Relay

RS Stock No.: 225-7036



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Timer Relays

Product Description

The DPDT version of the RS Pro 896-6813. It features 12 Timing functions and 7 digital timing ranges from 100mS up to 100Hrs. The Timing functions include Supply voltage triggered and control input triggered options. A Bi-Stable(Step-relay) function is also included

- With so many Timing functions and Time ranges will be useful for many applications
- Not suited for Asymmetrical Recycling, Delay after disconnect (True Off-delay) or Star-Delta functions, which are available on other Timer Relays in the RS Pro range.
- Secure function and timing range cannot be altered during power-up.

General Specifications

Timing functions

On Delay, Signal On-Delay, Signal Off Delay, Symmetrical Recycling Pause first, Symmetrical Recycling Pulse first, Signal On/Off, On-Impulse, Off Impulse, Bi-Stable (Step-relay), Interval, Signal Off/On (Pulse extender), Accumulative On-Delay.

Supply Characteristics

Supply Voltage	12-240Vac/dc -15% + 10% 50/60Hz
Power Consumption (typical)	5 VA

Output Relay Characteristics

Contact arrangement	DPDT
Contact rating (resistive Load)	8 Amps @ 240Vac, 5 Amps @ 24Vdc
Contact Material	AgNi
Electrical Life	50,000 Operations minimum
Mechanical Life	10,000,000 Operations minimum

EMI/EMC

Harmonic Current Emissions	IEC 61000-3-2 Class A
ESD	IEC 61000-4-2 Air Discharge Level III, Contact Discharge Level II
Radiated Susceptibility	IEC 61000-4-3 Level III
Electrical Fast Transient	IEC 61000-4-4 Level IV
Surge	IEC 61000-4-5 Level III
Conducted Susceptibility	IEC 61000-4-6 Level III
Voltage Dips and Interruptions	AC & DC, As per IEC 61812-1
Conducted/Radiated Emission	CISPR Class B

Timer Relays

Additional Information

Time ranges	1s-10s, 10s-1m, 1m-10m, 10m-1H, 1H-10H, 10H-100H
Setting accuracy	+/- 5% of full selected scale
Repeat Accuracy	+/- 1%
Dual LED Indication	Green = Supply(flashes when timing) Yellow = Relay energised
Mounting	35mm DIN Rail
Dimensions	18 x 66 x 90
Weight	72 Grams, unpacked
Housing Material	Flame retardant (UL 94-V0)
Initiate time	Max. 100mS
Reset time	Max. 200mS

Environmental

Humidity	95% Rh, Non-condensing
Operating temperature	-20°C - +60°C
Storage temperature	-25°C - +70°C
Max. Operating altitude	2000m
Degree of Protection	Terminals, IP20, Housing IP 40
Pollution Degree	II
Isolation	Input to Output: 2kV Terminals and Casing: 2.5kV
Insulation Type	Reinforced

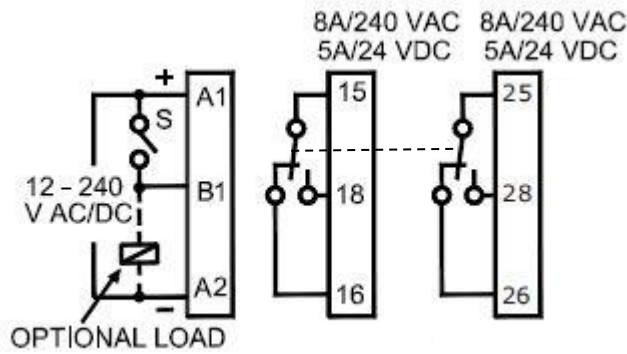
Approvals

Declarations	UKCA, CE, UL, RoHS.
Standards Met	UKCA, CE, UL.

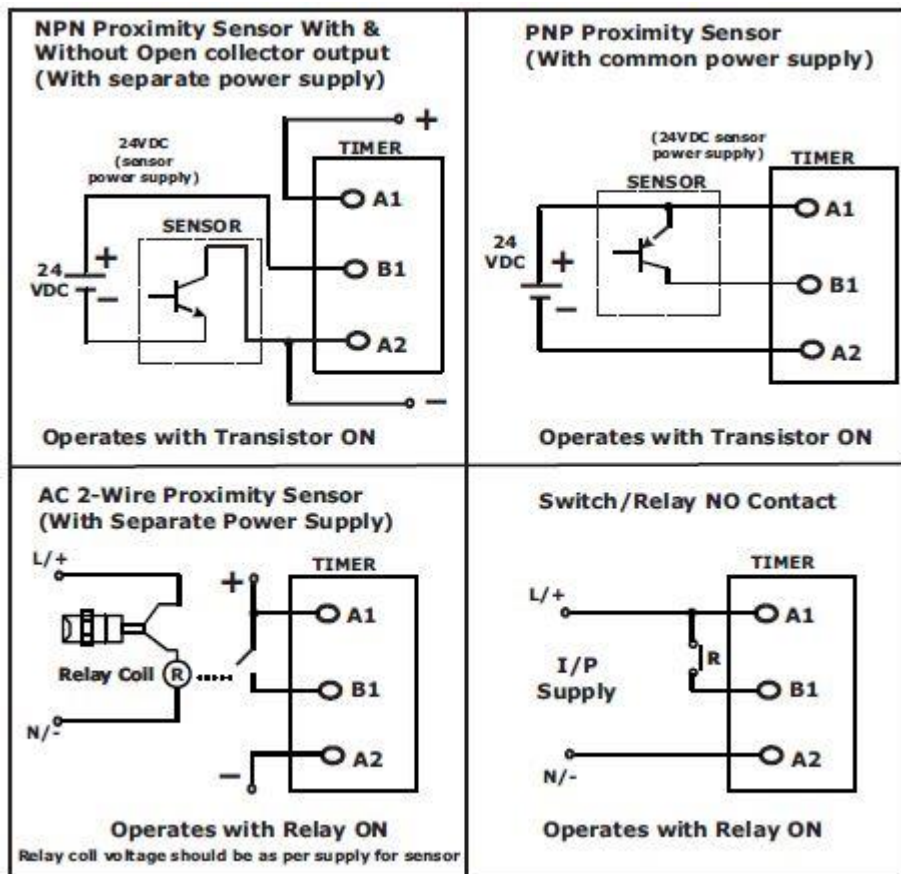
Similar Products

Stock No.	Brand	Product Name	Contact Configuration	Current Maximum
896-6813	RS PRO		SPCO	8A @250Vac, 5A @ 24Vdc (Res)
225-7037	RS PRO		SPCO	16A @250Va, 16A @ 24Vdc (Res)

Connection Diagram



Sensor Connection Diagram



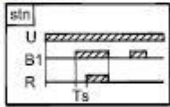
Timing function diagrams

Function Diagrams.

U = Supply Voltage
 B1 = Trigger input
 R = Relay
 Derived modes 1) and 2), Connect permanent link between A1 & B1

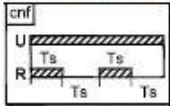
stn) Signal On Delay:

Timing starts when Switch (S) is closed. R energizes at end of period T_s and de-energizes when Switch (S) is opened.



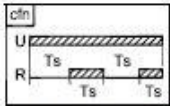
cnf) Cyclic On/Off: On start

Initially the relay (R) is On for period T_s after the power is applied. The relay (R) keeps on changing its status till power is removed with On and period = T_s .



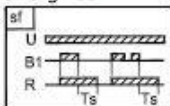
cfn) Cyclic Off/ On : Off start

Initially the relay (R) is Off for period T_s after the power is applied. The relay (R) keeps on changing its status till power is removed with On and Off period = T_s .



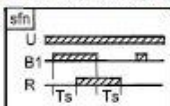
sf) OFF Delay, Constant Supply (Signal Off Delay)

R energizes when Switch (S) is closed. Timing commences after Switch (S) is opened and then the relay de-energizes.



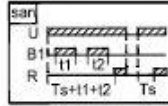
sfn) Signal Off/On

When Switch (S) is closed or opened for preset time T_s , the relay changes its state after time duration T_s .



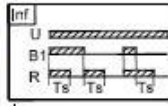
san) Accumulative Delay On Signal

Time commences as supply is present and Switch (S) is open. Closing Switch (S) pauses timing. Timing resumes when Switch (S) opened again R energizes at the end of timing.



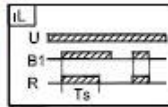
inf) Impulse On/Off

R energizes for the period T_s when Switch (S) is opened or closed. When timing commences, changing state of Switch (S) does not affect R but resets timer.



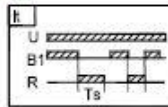
il) ON Impulse, Constant Supply

When switch (S) is closed and remains closed output relay energizes until timing is over. If Switch (S) is Opened during period T_s , R resets.



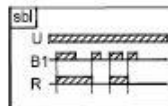
it) OFF Impulse, Constant Supply

When Switch (S) is opened, R energizes and de-energizes when timing is over. If Switch (S) is closed during period T_s R resets.



sbi) Leading Edge Bi-stable or Step relay

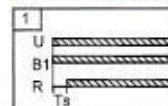
After every Signal, the output contact changes state, alternately switching from open to closed & vice versa.



Derived Modes :

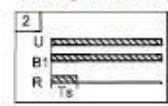
1) ON Delay

1. Select mode signal On Delay (stn) and close Switch (S) or short A1-B1 before power ON, it will work as ON Delay.
2. Select mode Accumulative On Delay (san) keeping signal open before power ON and during execution of time as well, it will work as ON Delay.



2) INTERVAL

Select mode (il) ON Impulse. If Switch (S) is closed between A1-B1 before making power supply ON and during execution of timing, it will work as Interval.



Dimensions (mm)

