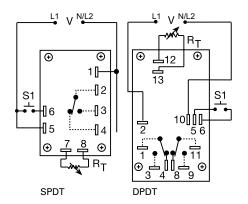
ORS SERIES





Wiring Diagram



V = Voltage S1 = Initiate Switch

Relay contacts are isolated.

R_T is used when external adjustment is ordered.

Description

The ORS Series' open PCB construction offers the user good economy without sacrificing performance and reliability. The output relay is available in isolated, 10A, DPDT or SPDT forms. The time delay may be ordered as factory fixed, onboard knob, or external adjustment. All connections are 0.25 in. (6.35 mm) male quick connect terminals.

Operation (Single Shot)

Input voltage must be applied before and during timing. Upon momentary or maintained closure of the initiate switch (leading edge triggered), the output relay energizes for a measured interval of time. At the end of the time 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	
Open PCB construction	Reduces cost without sacrificing performance and reliability	
Analog circuitry	Repeat accuracy + / - 2%, Factory calibration + / - 10%	
Isolated, 10A, SPDT or DPDT output contacts	Allows control of loads for AC or DC voltages	
Line voltage initiation	Separate control voltage is not required for operation	

Accessories



P1004-12, P1004-12-X Versa-Pot

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



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)

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	OUTPUT FORM
ORS120A150SD	120VAC	Fixed	50s	DPDT
ORS230A150SD	230VAC	Fixed	50s	DPDT

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



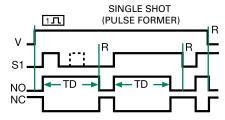
ORS SERIES

Selection Guide

R _T Selection Chart							
	R-						
	1,1						
1	2	3	4	5	Megohm		
0.05 0.5 1.0 1.5 2.0 2.5 3.0	0.5 5.0 10 15 20 25 30	0.6 10 20 30 40 50	1.2 20 40 60 80 100 120	3.0 50 100 150 200 250 300	0.0 0.5 1.0 1.5 2.0 2.5 3.0		

^{*} When selecting an external R_T add at least 20% for tolerance of unit and the R_T.

Function Diagram



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

Specifications

Time Delay

TypeAnalog circuitryRange0.05 - 300s in 5 adjustable ranges or fixedRepeat Accuracy±2% or 20ms, whichever is greater

 $\leq \pm 10\%$

Tolerance

(Factory Calibration) Adjustable: guaranteed range

Fixed: $\pm 10\%$ Reset Time ≤ 50ms
Initiate Time ≤ 70ms

Time Delay vs Temp. & Voltage

Input

Voltage 24, 120, or 230VAC

Tolerance
24VAC -15% - 20%
120 & 230VAC -20% - 10%
AC Line Frequency 50/60 Hz
Power Consumption 2.25W

Output

Type Electromechanical relay Form Isolated, SPDT or DPDT

Rating 10A resistive @ 120/240VAC & 28VDC;

1/3 hp @ 120/240VAC

≥1500V RMS input to output

Life Mechanical - 1x10⁷; Electrical - 1x10⁶

Protection

Isolation Voltage

Mechanical

Mounting Surface mount with four #6 (M3.5 x 0.6) screws **Dimensions H** 53.8 mm (2.12"); **W** 93.7 mm (3.69");

D 47.8 mm (1.88")

Termination 0.25 in. (6.35 mm) male quick connect terminals

Environmental Operating/Storage

Temperature -20° to 65°C / -30° to 85°C

Weight ≈ 2.7 oz (77 g)