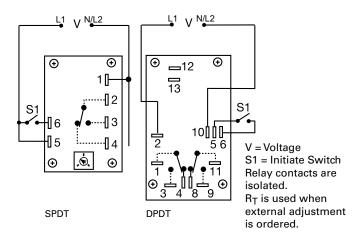
ORB SERIES





Wiring Diagram



Ordering Information

_						
MODEL	INPUT VOLTAGE	ADJUSTMENT	TIME DELAY	OUTPUT FORM		
ORB120A160	120VAC	Fixed	60s	SPDT		
ORB120A25	120VAC	Onboard	3 - 300s	SPDT		
ORB24A11D	24VAC	Fixed	1s	DPDT		
ORB24A21D	24VAC	Onboard	0.05 - 3s	DPDT		
ORB24A25	24VAC	Onboard	3 - 300s	SPDT		

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

Description

The ORB 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 (Delay-on-Break)

Input voltage must be applied before and during timing. Upon closure of the initiate switch, the output relay energizes. The time delay begins when the initiate switch is opened (trailing edge triggered). The output remains energized during timing. At the end of the time delay, the output de-energizes. The output will energize if the initiate switch is closed when input voltage is applied.

Reset: Reclosing the initiate switch during timing resets the time delay. Loss of input voltage resets the time delay and output.

Features & Benefits

FEATURES	BENEFITS	
Open PCB construction	Reduces cost for OEM applications	
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 guick connect terminals.



ORB SERIES

Specifications

Time Delay

Type Range

Repeat Accuracy Tolerance

(Factory Calibration)

Reset Time Initiate Time

Time Delay vs Temp. & Voltage

Input Voltage **Tolerance**

24VAC 120 & 230VAC **AC Line Frequency Power Consumption**

Output Type

Form

Rating

Life **Protection Isolation Voltage**

Mechanical

Mounting **Dimensions**

Termination

Environmental Operating/Storage

Temperature Weight

Analog circuitry

0.05 - 300s in 5 adjustable ranges or fixed ±2% or 20ms, whichever is greater

Adjustable: guaranteed range

Fixed: ±10% ≤ 50ms ≤ 70ms

≤ ±10%

24, 120, or 230VAC

-15% - 20% -20% - 10% 50/60 Hz 2.25W

Electromechanical relay Isolated, SPDT or DPDT

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

1/3 hp @ 120/240VAC

Mechanical - 1x107; Electrical - 1x106

≥1500V RMS input to output

Surface mount with four #6 (M3.5 x 0.6) screws

H 53.8 mm (2.12"); **W** 93.7 mm (3.69");

D 47.8 mm (1.88")

0.25 in. (6.35 mm) male quick connect terminals

-20° to 65°C / -30° to 85°C

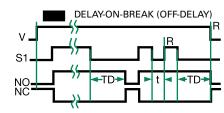
 $\approx 2.7 \text{ oz } (77 \text{ g})$

Selection Guides

R _T Selection Chart							
	B+						
	11						
1	2	3	4	5	Megohm		
0.05	0.5	0.6	1.2	3.0	0.0		
0.5	5.0	10	20	50	0.5		
1.0	10	20	40	100	1.0		
1.5	15	30	60	150	1.5		
2.0	20	40	80	200	2.0		
2.5	25	50	100	250	2.5		
3.0	30	60	120	300	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 t = Incomplete

Time Delay R = Reset -{- ← = Undefined

Time

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