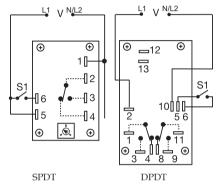


Connection:



Relay contacts are isolated. R_r is used when external adjustment is ordered. 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.

For more information see:

Appendix A, pages 156-164 for function descriptions and diagrams.

Appendix B, page 165, Figure 11 for dimensional drawing.

R _T Selection Chart					
Desired Time Delay*					Rт
Seconds					111
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 RT.

Features:

- Low cost open PCB construction
- 10A, DPDT or SPDT output contacts
- Line voltage initiation
- Delays from 0.05s 300s in 5 ranges
- ±2% repeat accuracy
- ±10% factory calibration

Approvals: (E R) (

Auxiliary Products:

- External adjust potentiometer: P/N: P1004-12 P/N: P1004-12-X
- Female quick connect: P/N: P1015-64 (AWG 14/16)
- Quick connect to screw adaptor: P/N: P1015-18
- Versa-knob: P/N: P0700-7

Available Models:

ORB120A160 ORB120A25 ORB24A15D ORB24A21D ORB24A25

If desired part number is not listed, please call us to see if it is technically possible to build.

Order Table: **ORB**

Input Voltage -24A - 24VAC -120A - 120VAC -230A - 230VAC

Power Consumption 2.25W

Adjustment -1 - Fixed -2 - Onboard knob -3 - External adjust

Time Delay* -1 - 0.05 - 3s -2 - 0 5 - 30s -3 - 0.6 - 60s

-5 - 3 - 300s

Output Form -Blank - SPDT -D - DPDT

-4 - 1.2 - 120s *If fixed delay is selected, insert delay (0.05 - 300) in seconds.

Specifications

Time Delay Type Analog circuitry Tolerance (Factory Calibration) Adjustable: guaranteed range Fixed: ±10% Reset Time....≤50ms Initiate Time \leq 70ms Time Delay vs Temp. & Voltage. ≤ ±10% Input Voltage.... Tolerance 120 & 230VAC.....-20% - 10% AC Line Frequency 50/60 Hz

Output Type . . Electromechanical relay Isolated, SPDT or DPDT 10A resistive @ 120/240VAC & 28VDC; 1/3 hp @ 120/240VAC Mechanical - 1x107; Electrical - 1x106 Protection Isolation Voltage. ≥1500V RMS input to output Mechanical Surface mount with four #6 (M3.5 x 0.6) screws Mounting . . Operating / Storage Temperature.....-20° to 65°C / -30°to 85°C