

236TD /237 Series - Time Delay Relay

DPDT, 10 Amp



Rugged, industrial time delay versions of the popular 219 series. On delay, off delay and interval timing is available. Contacts can be configured up to four pole double throw or six pole single throw. Blow out magnets can be added to increase DC switching capability. Time ranges are adjustable over a 1:100 range. Locking shaft potentiometer and integral hold down clip are standard. A large option list makes this product easily customized for special applications.

****Nuclear versions available****

GENERAL SPECIFICATIONS (@ 25° C)

Timing:

Functions Available	On-delay, Off-delay, Interval
Time Range	Up to 7 hours
Timing Adjustment	Locking shaft potentiometer
Timing Repeatability (Constant voltage and temperature)	3%
Reset Time maximum	150mS
Input Pulse Length minimum	50mS

Contacts:

Contact Configuration	DPDT, DPDT+NO
Contact Material	Silver Alloy Gold Diffused
Contact Rating	
120 / 240VAC Resistive	10 Amp / 5 Amp
28VDC Resistive	10 Amp
Motor 120VAC	-
Motor 240VAC	-
Minimum Contact Load	500mW
Contact Resistance, Initial	100 milliohms max @ 6VDC, 1A

Coil:

Coils Available	AC and DC
Nominal Coil Power	5VA 2.5W
Input Voltage Tolerance -AC	85% to 110% of nominal
Input Voltage Tolerance -DC	80% to 110% of nominal
Transient Protection	Yes
Reverse Polarity Protection	Yes
Duty	Continuous

Dielectric Strength:

Across Open Contacts	500Vrms
Between Mutually Insulated Points	1500Vrms
Insulation Resistance	1,000 Mohms min @ 500VDC

Temperature:

Operating	-20 to 70°C (-4 to 158°F)
Storage	-40 to 105°C (-40 to 221°F)

Life Expectancy:

Electrical (full load operations)	100,000
Mechanical (no load operations)	10,000,000

Miscellaneous:

Mounting Position	Any
Mating Socket	12 pin = 27390D 14 pin = 33377D
Accessories	Hold down clip integral to relay
Enclosure	Clear Polycarbonate
Weight	8.6oz (244 grams)



Timer / Sensor - Time Delay & Sensor Relays

5 - 25 Amp

Outline Dimensions

Dimensions Shown in inches & (millimeters)

Ordering Code 236 ABX P 020 120VAC

Series

236 - On delay
237 - Off delay

Contact Arrangement

ABX (1 N.O. + DPDT)
XBX (DPDT) - (2 form C)

Construction

Blowout Magnet - CODE 69
Bifurcated contacts CODE 33
Plug-in CODE P

Timing Ranges

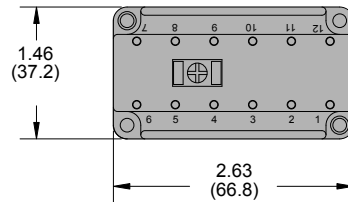
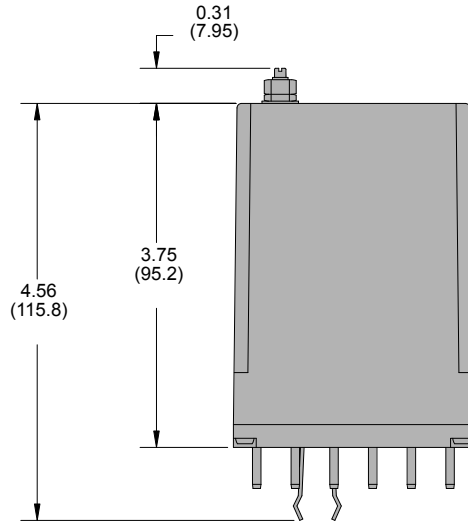
0.2 - 12 seconds - CODE 012
0.2 - 20 seconds - CODE 020
2.0 - 200 seconds - CODE 200
Fixed = No CODE

Adjustment Options

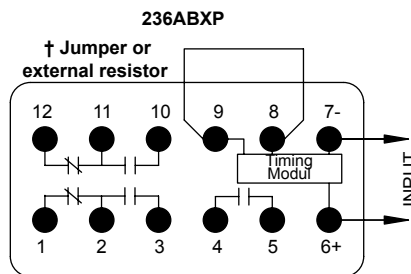
Locking shaft potentiometer - No CODE
Fixed delay - CODE F
(Call for more information)

Operating Voltage

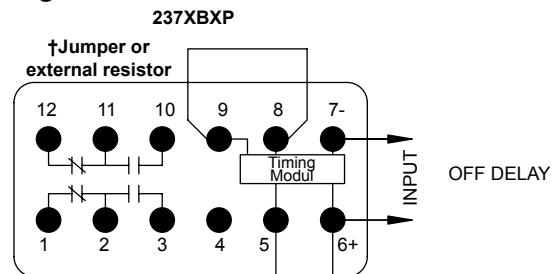
AC: 24, 120, 240 (Add VAC)
DC: 12, 24, 115-125 (Add VDC)



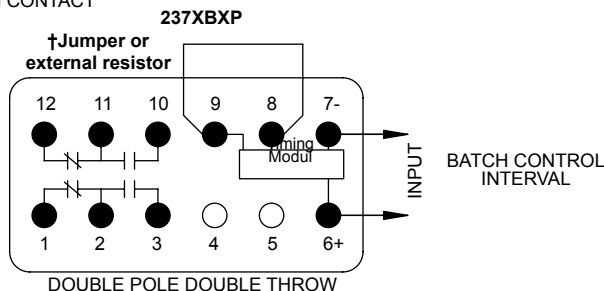
236/237 Wire Diagram



DOUBLE POLE DOUBLE THROW
WITH NORMALLY OPEN CONTACT



DOUBLE POLE DOUBLE THROW



DOUBLE POLE DOUBLE THROW

†If the jumper wire shown in each diagram is replaced by a resistor, delay time will be added to that which is produced by an internal fixed resistor on fixed time models (Code F) or any setting on screwdriver adjustable models.