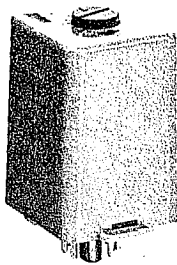
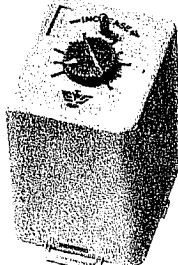


80 SERIES — TIME DELAY RELAY ON DELAY



Standard

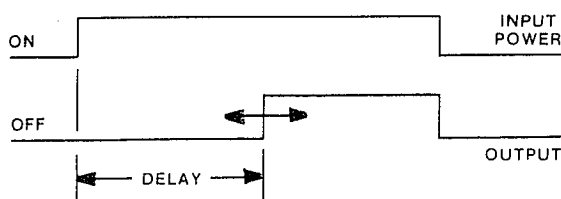


With Features 01 and 14
Latching Relay
Press to Test
Latch Release

General Information

- An inexpensive and compact fixed or adjustable time delay.
- Models feature plug-in octal base or square base design. Plug-in square base also features universal blade type terminals for solder or quick connect terminals. Printed circuit terminals are available on square base units. (See ordering information.)
- Polycarbonate dust cover has low moisture absorption and high impact strength.
- Delay time is obtained by using a CMOS integrated circuit, an internal potentiometer controlled oscillator, a programmable binary counter and output controlled logic.
- Available in 5 voltages and DPDT 10 ampere output contacts.
- Gold diffused 5 ampere contacts optional.
- Available in 15 standard time ranges from .1 second to 4.5 hours.
- Optional flange mounting.
- Push to test, simulating timed out condition, optional.
- Optional lock in/manual reset. Retains contacts in timed out condition after time out. Reset button must be depressed and power removed to reset timer.
- Indicator light. On when power is applied to timer. (Standard on this series.)

LOGIC FUNCTION DIAGRAM



ON DELAY: Time delay starts upon application of power. Relay energizes after delay. De-energizing input terminals resets timer.

SPECIFICATIONS

Repeat Timing Accuracy

±1.5% under fixed conditions

Fixed Time Accuracy

± 5% at rated voltage and room temperature (99 time range)

Reset Time

75 milliseconds after time-out, 150 milliseconds if reset during timing

Drop-Out Speed

30 milliseconds typical (Including bounce)

Input Voltage Variation

Rated voltage +10%, -15%

Polarity Protection

Inverse polarity protection on DC units

Transient Protection

Immune to +600 volts peak transients up to 50 microseconds in duration

Insulation Resistance

100 Megohms minimum

Dielectric Strength

500 volts R.M.S. 60Hz between open contacts
1500 Volts R.M.S. 60Hz between all elements

Temperature Range

Operating

+14°F to +104°F (-10°C to +40°C)

Storage

-4°F to +185°F (-20°C to +85°C)

Life Expectancy

Mechanical

In excess of 10 million operations

Electrical

100,000 minimum at full rated load

Duty Cycle

Continuous

Output Rating

MATERIALS	RATING
Silver	10 Amp 28 VDC (resistive)
Cadmium	10 Amp 250 VAC
Oxide	1/4 Hp 250 VA 125 VAC
(AgCdO)	1/3 Hp 240 VA 250 VAC

Laboratory Testing

U.L. Recognition E39906

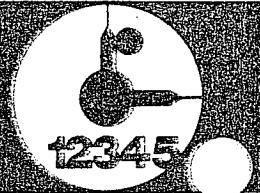
C.S.A. Certification LR26861



Eagle Signal Controls

Industrial Control Products
8004 Cameron Road, Austin, Texas 78754

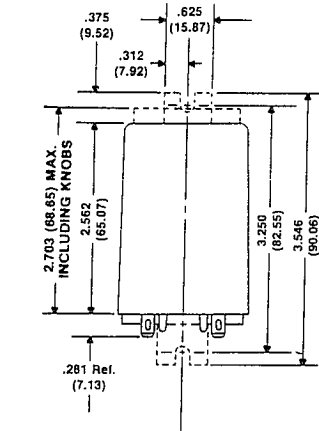
TIME CONTROL



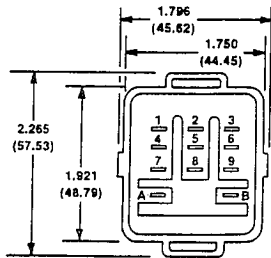
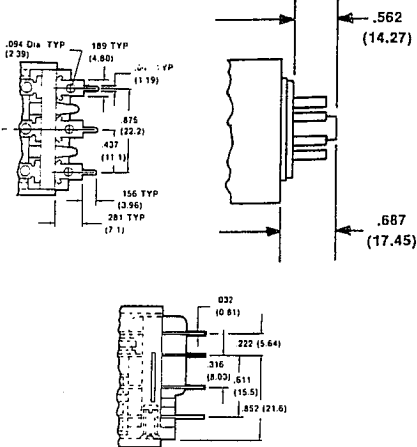
DIMENSIONS

XXX = inches.
(XXX) = millimeters.

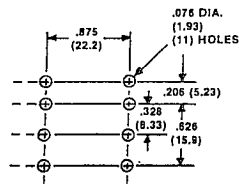
Flanged Case



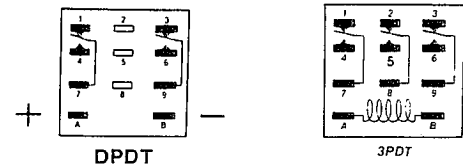
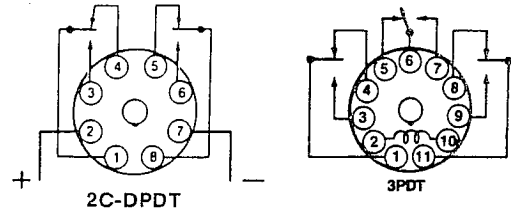
Printed Circuit



Suggested PC Board Layout



WIRING DIAGRAMS



	Sockets	Retainers
Type Q	60SR2P05	N/A
1C and	60SR2P06	60SFA201 Clip
2C	60SR2P51	N/A
Type E	60SR3B05	60SFA201 Clip
Square	60SR3B51	N/A
Base	4270-0681	N/A

ORDERING INFORMATION

Contact Materials	Terminals
E Silver Cadmium Oxide, 10 Amp	Universal Plug-in, .187 Solder, Quick Connect
H Silver Cadmium Oxide, 10 Amp	Printed Circuit Special Order Only
Q Silver Cadmium Oxide, 10 Amp	Plug-in

CONTACT FORM

SYMBOL	DESCRIPTION
2	Form C DPDT
3	Form C 3PDT

VOLTAGE FREQUENCY

SYMBOL	DESCRIPTION
X1	12VDC
Z1	24VDC
Z6	24V 60Hz
A6	120V 60Hz
B6	240V 60Hz

80 E 2 A6 01 07

FEATURES

(More than one feature may be specified)

SYMBOL	DESCRIPTION
01*	Manual (Push to Test) Operator
05	Flanged Case Mounting "E" Series ONLY
07	5 Amp Gold Diffused (For low level application)
14*	Lock In - Latch Release DPDT Only
98	C.S.A. Certified Version

TIME RANGE

SYM	DESCRIPTION	SYM	DESCRIPTION
00	Unprogrammed	09	25.6 - 256 Sec.
01	.1 - 1 Sec	10	.85 - 8.5 Min
02	.2 - 2 Sec	11	1.7 - 17 Min.
03	.4 - 4 Sec	12	3.4 - 34 Min
04	.8 - 8 Sec	13	6.8 - 68 Min
05	1.6 - 16 Sec	14	13.6 - 136 Min
06	3.2 - 32 Sec	15	.45 - 4.5 Hr
07	6.4 - 64 Sec	99	Fixed Timing
08	12.8 - 128 Sec		(Specify Time)