Logic
Time Delay Relays
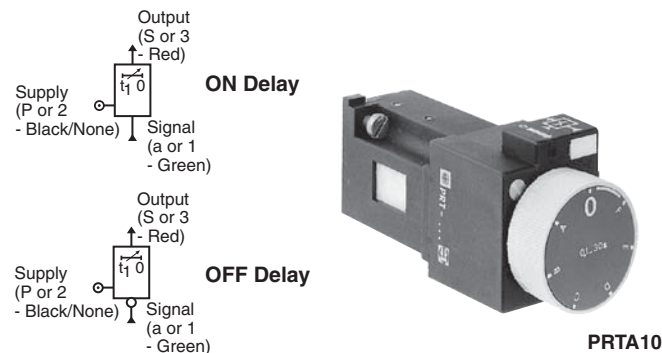
Time Delay Relays

For Mounting on any 2* or 3-Port Subbase Using Atmospheric Air for Control Single Turn Adjustment

Output
(S or 3
- Red)

ON Delay

Supply
(P or 2
- Black/None)

Signal
(a or 1
- Green)

Output
(S or 3
- Red)

OFF Delay

Supply
(P or 2
- Black/None)

Signal
(a or 1
- Green)

PRTA10

*Function Must Be Checked.

Part Number	Description	Timing Range
PRTE10	ON Delay	0.1 to 3 sec.
PRTA10	ON Delay	0.1 to 30 sec.
PRTB10	ON Delay	10 to 180 sec.
PRTF10	OFF Delay	0.1 to 3 sec.
PRTC10	OFF Delay	0.1 to 30 sec.
PRTD10	OFF Delay	10 to 180 sec.
PRTA12	PRTA10 on PZUA12 Subbase	
LA9D901	Tamperproof Cap	

The Time Delay Relay delays a maintained input signal during an adjustable time period after which a regenerated output appears.
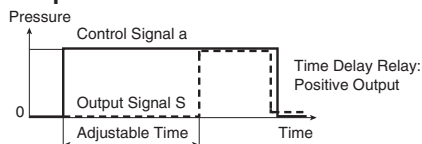
Setting
• Delay is set by turning knob.
• One 360° turn covers complete timing range.
• When white line on dial is set at top dead center, TDR goes to infinity. This feature facilitates machine set up.
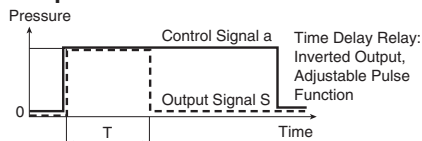
Connections: 3-Port Subbase with
• Instant Straight Connections
• Instant Swivel Connections
• 1/8" NPT Female Connections

Timing Functions
• **Positive Output**

Pressure

Control Signal a

Time Delay Relay:
Positive Output

Output Signal S

Adjustable Time   Time

0

• **Inverted Output**

Pressure

Control Signal a

Time Delay Relay:
Inverted Output,
Adjustable Pulse
Function

Output Signal S

T   Time

0

Repeatability +2%

Specifications

Air Quality -
Standard Shop Air, Lubricated or Dry, 40 µm Filtration

Cv 0.14 (1.8)

Filter .... a-PPRL23, Vent - PPRL20

Flow rate at 90 PSI (6 bar) in SCFM (l/mn ANR) 6.4 (180)

Interchangable 50 µm Filter –
a (Input)..PPRL23
Input Cylinder...PPRL20

Materials –
- Body...Polyamide
- Poppet..Polyurethane
- Seals..................................... Nitrile (Buna N)

Mounting ....2 or 3-Port Subbase

Number of Operations with Dry Air at 90 PSI and 70°F, Frequency 1 Hz ....10 Million

Operating Positions... All

Operating Pressure ....40 to 115 PSIG (3 to 8 bar)

Repeatability .... ±5% / 5 Operations

Response Time .... 2 to 3 msec

Temperature –
Operating .... 32°F to 122°F (0°C to +50°C)
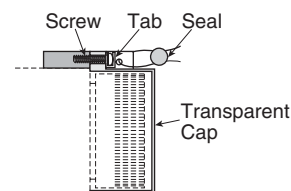Storage ....-22°F to 140°F (-30°C to +60°C)

Tamperproof Cap
• **Locking**
Set desired time delay, then place transparent cap over setting knob and tighten screw.

• **Sealing**
Bend tab over screw head; run wire over head, then seal.

Screw   Tab   Seal

Transparent
Cap

Dimensions
PRT•10

1.31
(33) Dia.

.56
(14)

1.91
(48)

M4

1.41
(36)

1.66
(42)

3.84
(98)

A