

TDR782 Miniature Time Delay Relay

GENERAL SPECIFICATIONS



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OUTPUT CHARACTERISTICS		UNITS	TDR782XBX	TDR782XDX
Number and type of contacts			DPDT	4PDT
Contact material			Silver alloy	Silver alloy
Current rating		A	5	3
Maximum permissible current (< 0.01 S)		A	10	10
Minimum switching requirement		Ma	100	100
Indication (LED)		On = energized	Amber	Amber

INPUT CHARACTERISTICS				
Standard voltage		VAC	24, 120, 230	24, 120, 230
		VDC	12, 24	12, 24
Operating range	% of Nominal	VAC	85% to 115%	85% to 115%
		VDC	90% to 110%	90% to 110%
Maximum consumption	24 AC	VA	1.7	1.7
	120 AC	VA	2.6	2.6
	230 AC	VA	3	3
	12 DC	W	1.5	1.5
	24 DC	W	1.2	1.2
Indication (LED)			Green	Green

TIMING CHARACTERISTICS				
Functions available		See chart	On Delay	On Delay
Time scales			7	7
Time ranges available		sec	0.1 to 1, 1 to 10	0.1 to 1, 1 to 10
		min	0.1 to 1, 1 to 10	0.1 to 1, 1 to 10
		hr	0.1 to 1, 1 to 10, 10 to 100	0.1 to 1, 1 to 10, 10 to 100
Tolerance	Mechanical setting	%	5	5
Repeatability	Constant voltage & temperature	%	0.5	0.5
Temperature drift	Maximum	%/°C	0.05	0.05
Reset time		ms	50	50

PERFORMANCE CHARACTERISTICS				
Electrical life	Operations @ Rated Current	(Resistive)	100,000	100,000
Mechanical life	Unpowered		10,000,000	10,000,000
Dielectric strength	Input to contacts	V	2000 AC	2000 AC

ENVIRONMENT				
Product certifications	Standard version		UR, CE, CSA, RoHS	UR, CE, CSA, RoHS
Ambient air temperature around the device	Storage	°C	-40 to +70	-40 to +70
	Operation	°C	-20 to +60	-20 to +60
Degree of protection			IP 50	IP 50
Weight		grams	43	43

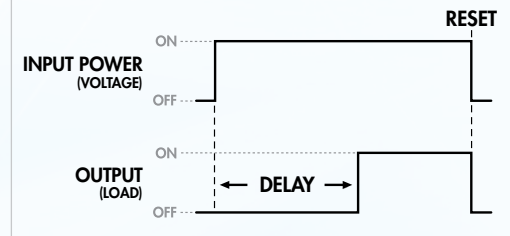
TIMING FUNCTION

On Delay - Contacts transfer after the predetermined time has expired.

OPERATION

Upon application of the input voltage, the preset time begins. At the end of the preset time, the relay contacts transfer. Input voltage must be removed and reapplied to reset the time delay relay.

TIMING CHART



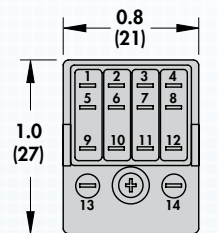
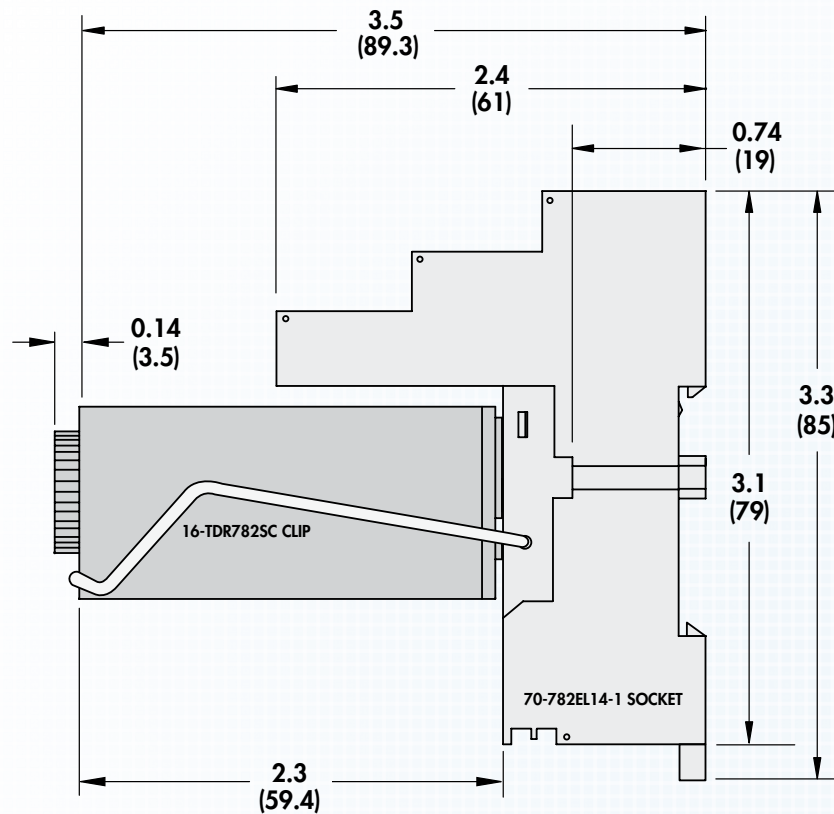
A Complete Solution:

TDR782XDX relay with 70-782EL14-1 socket, 16-TDR782SC hold-down clip and 16-782FT-1 ID tags.

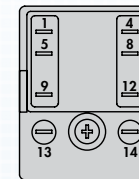
TDR782 Time Delay Relay

DIMENSIONS

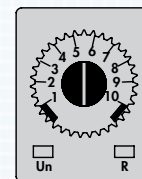
Dimensions shown in inches and (millimeters)



14 TERMINAL SQUARE
BASE 4PDT (ON DELAY)



8 TERMINAL SQUARE
BASE DPDT (ON DELAY)



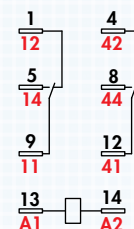
TIMING DIAL & LEDs



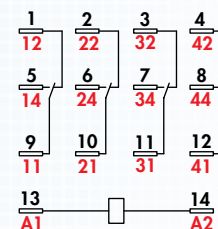
WIRING DIAGRAMS

Bottom View

TDR782XBX
DPDT



TDR782XDX
4PDT



NEMA
IEC

CROSS REFERENCE



Magnecraft	Omron	NAIS	IDEC	Fuji	Allen Bradley	Finder
*TDR782XBX (DPDT)	H3YN-2 H3YN-21	S1DX-A2C	GT5Y-2SN	ST7P-2A ST7P-2DE	700HS12	85.02
*TDR782XDX (4PDT)	H3YN-4 H3YN-41	S1DX-A4C	GT5Y-4SN			85.04

*TDR782XBX & TDR782XDX both available with input voltages of 12, 24 VDC & 24, 110, 230 VAC.