General

The ERP-DX digital time relay with ON Delay and OFF Delay is designed for use wherever timed control is required.
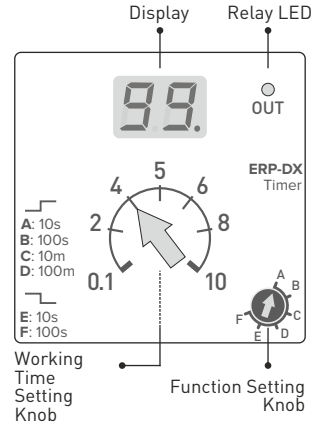
Usage of the Device and Working Principle

Display: When setting time and function and when the set time is counting down, it is shown here. If the operating time is set in minutes, the dot on the rightmost side of the display flashes while the device is counting down. If the time is not counting (the set time is over), this dot does not flash.

Function Knob: To set the operating function, set this knob to the desired value. While adjusting the function, the set function is displayed on the screen.

Functions A, B, C and D operate with in on delay. The maximum setting times that can be set for these functions are; 10 seconds for A, 100 seconds for B, 10 minutes for C, 100 minutes for D. Functions E and F operate with in off delay. the maximum setting times that can be set for these functions are; 10 seconds for E, 100 seconds for F.

t Knob : To set the working thime value, turn the ¨t¨ knob to the desired value. While setting the time, the set time is shown on the screen. (If the time is changed while the device is counting, the device continues to count the new set time.

OUT LED : This LED lights up when the device energizes the relay.

Setting Working Time and Function

Set the working function you want to set using the function knob and the working time using the ¨t¨ knob. While setting the function and ¨t¨ knob, the set value is displayed on the screen.
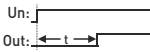
Setting the Device as a ON Delay Timer

Example: If you want the relay to be energized 5 minutes after the device is energized; set the function knob to the "C" (10 min.) position. Set the "t" knob to the "5.0" position.
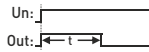
Setting the Device as a OFF Delay Timer

Example: If you want the device to energize the relay for 5 seconds after being energized and then de-energize the relay after 5 seconds set the function knob to the "E" (10 sec.) position. Set the "t" knob to the "5.0" position.
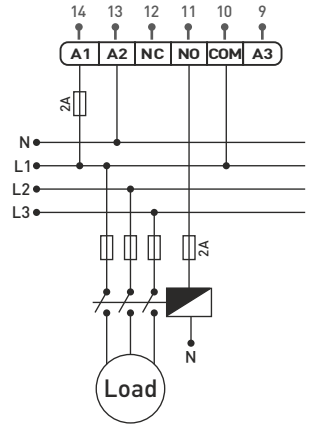
ON Delay Timer Operating Characteristics

OFF Delay Timer Operating Characteristics

Relay Energized/De-energized Status

Relay is Energized: 10 (COM) and 11 (NO) short circuit, 12 (NC) and 10 (COM) open circuit.
Relay is De-energized: 10 (COM) and 12 (NC) short circuit, 11 (NO) and 10 (COM) open circuit.

Warnings

-Please use the device according to the manual.
-Don't use the device in wet.
-Include a switch and circuit breaker in the assembly.
-Put the switch and circuit breaker nearby the device, operator can reach easily.
-Mark the switch and circuit breaker as releasing connection for device.

Maintenance

Switch off the device and release from connections. Clean the trunk of device with a swab. Don't use any conductor or chemical might damage the device. Make sure device works after cleaning.

Technical Specifications

Operating Voltage (A1-A2)	:	160-240V AC 50/60Hz.
Operating Voltage (A2-A3)	:	24V AC/DC
Operating Power	:	<7VA
Operating Temperature	:	-20°C.....+55°C
Operating Time Range	:	0,1sec. - 100 min.
Display	:	1x2 LED Display, 1x LED.
Connection Type	:	Plug-in terminal.
Mounting	:	Mounting on the front panel.
Panel Hole Sizes	:	46x46mm
Weight	:	<100gr.
Contact	:	5A 250V AC Resistive Load
Operating Altitude	:	<2000m
Cable Diameter	:	1,5mm²

Display   Relay LED
OUT
ERP-DX Timer

A: 10s
B: 100s
C: 10m
D: 100m
E: 10s
F: 100s

Working Time Setting Knob

Function Setting Knob

Connection Diagram

14	13	12	11	10	9
A1	A2	NC	NO	COM	A3

Load

Dimensions

49 mm
49 mm

85 mm
45,2 mm
30 mm
60 mm
7,5 mm
66,5 mm
11,5 mm