

E-78-S SERIES PROGRAMMABLE ADVANCED COUNTER AND TIMER RELAY



■ DESCRIPTION

E-78-S Series instruments are designed using new generation micro-controllers. It can be used with NPN or PNP sensors. The instrument counts impulses from counter input. The counted value is multiplied by the PSCL1 parameter specified by the user and displayed on the upper screen by dividing by PSCL2 parameter. The value transferred to the display also checks the relays and the numeric output by comparing it with the values set by the user, Set1 and Set2. Using the RS-485 communication port and the Modbus protocol, the instrument's configuration parameters and results can be transmitted to other devices. It is also used as a timer with the TIMER function on the instrument.

■ BATCH CONTROL

E-78-S series could be used as Batch Control devices. The bAtCh value found on the instrument is displayed on Autoreset output types after each Autoreset and on the bottom display on the main screen. The batch value changes in other forms, except for the bAtCh type found in the output types, but no control operation is performed.

■ TIMER RELAY

E-78-S series are also used as timer relay. It can be programmed as timer or counter according to the selected value in the triCrT parameter of the instrument. Control of relays and pulse output according to set points is done as described in chapter "output types".

■ TECHNICAL SPECIFICATIONS

Accuracy Class	0.5
Input Types	NPN/PNP Sensor
Control Output	Relay : SPST 250 V AC, 3A Pulse : SPDT 250 V AC, 3A D.OUT : 24 V DC, 20 mA (SSR)
Display	2x6 Digit Led 9,14 mm
Operating Temperature	0 ... 55 °C (Without condensation and icing)
Power Supply	85-265 VAC 50-60 Hz/ 85-375 VDC 20-60 VAC 50-60 Hz/ 20-85 VDC
Power Consumption	4 W
Relay's Mechanical S. Life	10 000 000 On-Off
Relay's Electrical Life	>1 000 000 On-Off (1/10 load)
Protection Class	IP 66 front panel (NEMA 4X) IP 20 rear panel
Memory	Maximum writing deletion: 100 000 times
Weight	150 gr

ORDERING GUIDE

E-78-S Series Programmable Advanced Counter and Timer Relay

E-78 - S - X - Y - Z

Standard Features

Instrument Structure

Counter S

Output

None 0

1 relay, 1 x (NO-0) 1

2 relays, 2 x (NO-0) 2

Communication

None 0

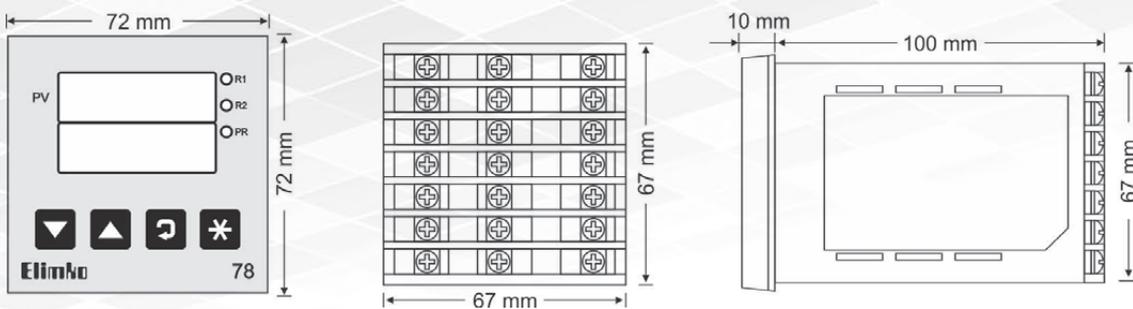
RS485 Modbus 1

Power Supply

85-265 V AC / 85-375 V DC 0

20-60 V AC / 20-85 V DC 1

DIMENSIONS



Panel cut-out = 68 x 68 mm



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