

## E-78-D SERIES TIMER/COUNTER & SPEED INDICATOR & CONTROLLER



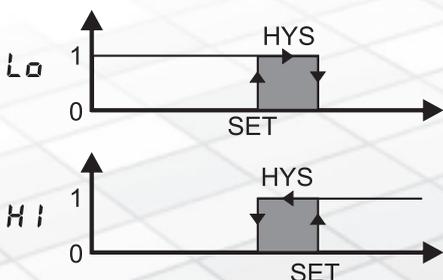
### DESCRIPTION

E-78-D is a microprocessor-controlled instrument that operates with the principle of frequency and period measurement. With impact sensors, it can be used to measure process variables such as speed, speed and timer.

Frequency of the input signal should be between 0.2 Hz and 10 kHz. Depending on the selected input type, it calculates the frequency differences and ratios of these inputs by measuring the frequencies and periods of the signals from two different inputs. Values are multiplied by the Psc1 parameter and divided by the Psc2 parameter and displayed on the screen.

The instrument checks the output relays by comparing the SET1 and SET2 values that can be set with the process value. With the RS-485 communication port, the instruments configuration parameters and results can be transmitted to other instruments via the Modbus protocol.

### OUTPUT FORMS



### TECHNICAL SPECIFICATIONS

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

## ■ ORDERING GUIDE

E-78-D Series Rotation/Speed Indicator and Controller

E-78 - D - X - Y - Z

### Standard Features

#### Instrument Structure

Speed indicator ..... D

#### Output

None ..... 0  
 1 relay, 1 x (NO-0) ..... 1  
 2 relay, 2 x (NO-0) ..... 2

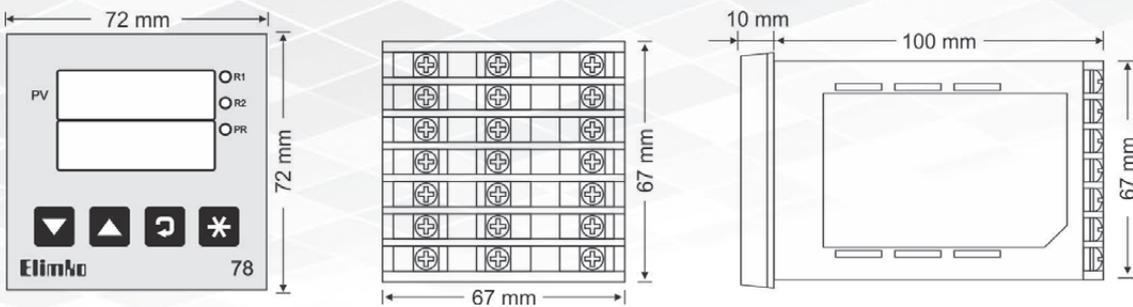
#### Communication

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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