

### 3-point Preset Counter/Specifications

| Model                           | CEU1                                                                                                                   | CEU1P                                    | CEU1-D                                   | CEU1P-D                                  |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| Type                            | 3-point preset counter                                                                                                 |                                          |                                          |                                          |
| Mounting                        | Surface mounting (DIN rail or Screw stop)                                                                              |                                          |                                          |                                          |
| Operating system                | Adding - subtracting type                                                                                              |                                          |                                          |                                          |
| Operation modes                 | Operating mode, Data setting mode                                                                                      |                                          |                                          |                                          |
| Reset system                    | External reset terminal                                                                                                |                                          |                                          |                                          |
| Display system                  | LCD (With back light)                                                                                                  |                                          |                                          |                                          |
| Number of digits                | 5 digits display (−9999.9 to 9999.9)                                                                                   |                                          |                                          |                                          |
| Memory holding {Storage medium} | Preset data (always held) {E <sup>2</sup> ROM (Warning display after writing approx. 65,000 times: $\overline{FL}$ )}  |                                          |                                          |                                          |
| Input signal type               | Count input, Reset input                                                                                               |                                          |                                          |                                          |
| Count input                     | No-voltage pulse input                                                                                                 |                                          |                                          |                                          |
| Pulse signal system             | 90° phase difference input                                                                                             |                                          |                                          |                                          |
| Counting speed                  | 20 kHz                                                                                                                 |                                          |                                          |                                          |
| Reset input                     | R.S. and COM terminals are shorted for 10 ms or more (Pulse input)                                                     |                                          |                                          |                                          |
| Sensor power supply             | 10.8 to 13.2 VDC, 60 mA                                                                                                |                                          |                                          |                                          |
| Output signal type              | Preset output                                                                                                          |                                          |                                          |                                          |
| Preset output configuration     | Compare/Hold/One-shot (100 ms fixed pulse)                                                                             |                                          |                                          |                                          |
| Output delay time               | 5 ms or less                                                                                                           |                                          |                                          |                                          |
| Output transistor mode          | NPN open collector<br>Max. 30 VDC, 50 mA                                                                               | PNP open collector<br>Max. 30 VDC, 50 mA | NPN open collector<br>Max. 30 VDC, 50 mA | PNP open collector<br>Max. 30 VDC, 50 mA |
| Power supply voltage            | 80 to 120 VAC 50/60 Hz                                                                                                 |                                          | 21.6 to 26.4 VDC                         |                                          |
| Power consumption               | 10 VA or less                                                                                                          |                                          | 5 W or less                              |                                          |
| Withstand voltage               | Between case and AC line: 1500 VAC for 1 min.<br>Between case and signal ground: 500 VAC for 1 min.                    |                                          |                                          |                                          |
| Insulation resistance           | Between case and AC line: 500 VDC, 50 MΩ or more                                                                       |                                          |                                          |                                          |
| Ambient temperature             | 0 to 50°C (without freezing)                                                                                           |                                          |                                          |                                          |
| Ambient humidity                | 35 to 85% RH (No condensation)                                                                                         |                                          |                                          |                                          |
| Noise resistance                | Square wave noise from a noise simulator (pulse duration 1 μs) between power supply terminals ±1500 V, I/O line ±600 V |                                          |                                          |                                          |
| Shock resistance                | Endurance 10 to 55 Hz; Amplitude 0.75 mm; X, Y, Z for 2 hours each                                                     |                                          |                                          |                                          |
| Impact resistance               | Endurance 10 G; X, Y, Z directions, 3 times each                                                                       |                                          |                                          |                                          |
| Weight                          | 250 g or less                                                                                                          |                                          |                                          |                                          |

### 3-point Preset Counter/Dimensions

