



**Model number**

KCX-B4WM-V



**Features**

- Addition/Subtraction counter
- 2 Pre-selections
- 4 or 6 decade devices
- LED indicator, green
- Counter frequency up to 20 kHz
- Power supply for pulse counter
- Positive or negative logic
- Display storage
- Counting frequency selectable via toggle switch 10 Hz / 20 kHz
- PNP or NPN output stages selectable
- 16 different operating modes
- Reset of the outputs, automatic or with external signal
- Flexible dust and spray protection cover in delivery package
- Base for surface or built-in mounting
- PNP and NPN sensors can be connected
- Accessory can be ordered separately

**Technical data**

**General specifications**

|               |  |
|---------------|--|
| Pre-selection | 2-fold   |
| Data storage  | 2000 h at 25 °C<br>battery, charging time ≤ 50 h |
| Programming   | via toggle switches and rotary switches          |

**Indicators/operating means**

|                   |                               |
|-------------------|-------------------------------|
| Type              | LED green                     |
| Number of decades | 4                             |
| Display value     | digit height 8 mm             |
| Pre-selection     | via push-button decade switch |
| Key interlock     | none                          |
| Decimal point     | not adjustable                |
| Reset             | automatically or externally   |

**Electrical specifications**

|                                  |              |
|----------------------------------|--------------|
| Operating voltage                | 115 / 230 AC |
| Power consumption P <sub>0</sub> | 7 VA         |

**Input**

|                    |   |
|--------------------|---|
| Sensor supply      | 24 V DC, 75 mA                            |
| Counting frequency | 10 Hz / 20 kHz                            |
| Impedance          | 2.3/4.7 kOhm (PNP/NPN)                    |
| Voltage            | low: 0 ... 6 V DC<br>high: 16 ... 30 V DC |
| Counting method    | adding or subtracting                     |

**Output**

|                               |   |
|-------------------------------|---|
| Relay                         | NO (250 V AC/2 A)   |
| Transistor                    | PNP, open collector (24 V/15 mA)<br>NPN, open collector (35 V, 30 mA)         |
| Delay                         | relay: ≤ 40 ms (≤ 10 ms at 20 kHz)<br>transistor: ≤ 30 ms (≤ 30 μs at 20 kHz) |
| Duration of momentary impulse | 50 ... 1000 ms  |

**Delay times**

|                                |                     |
|--------------------------------|---------------------|
| Reset                          |                     |
| External                       | 5 ms / 5 ms         |
| Automatic                      | 50 μs               |
| Hold-input                     | ≤ 25 μs             |
| Time delay before availability | 0,2 s after restart |

**Ambient conditions**

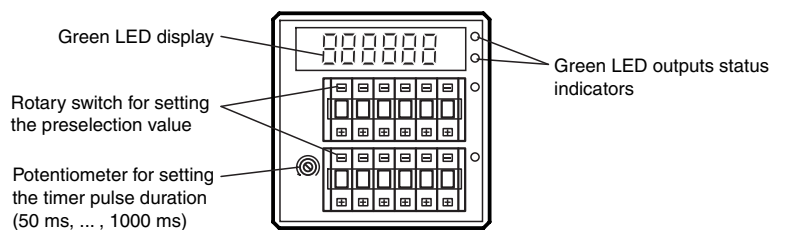
|                     |                               |
|---------------------|-------------------------------|
| Ambient temperature | -10 ... 70 °C (263 ... 343 K) |
| Storage temperature | -25 ... 70 °C (248 ... 343 K) |
| Relative humidity   | ≤ 80 % (non condensing)       |

**Mechanical specifications**

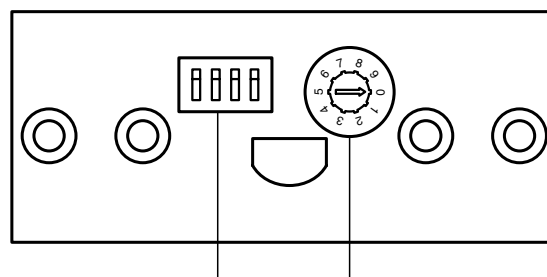
|            |   |
|------------|---|
| Connection | screw terminals<br>max. core cross-section 0.34 ... 1.5 mm <sup>2</sup> |
| Mass       | approx. 500 g   |
| Dimensions | 72 x 72 x 104 mm  |

**Notes**

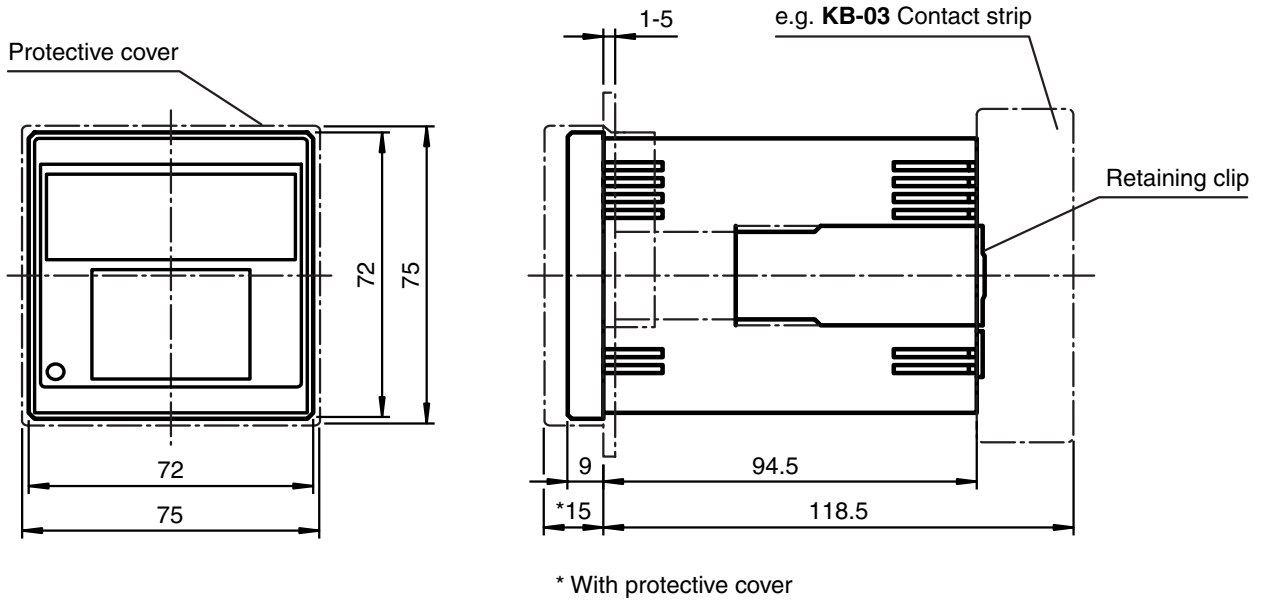
**Controls and indicators**



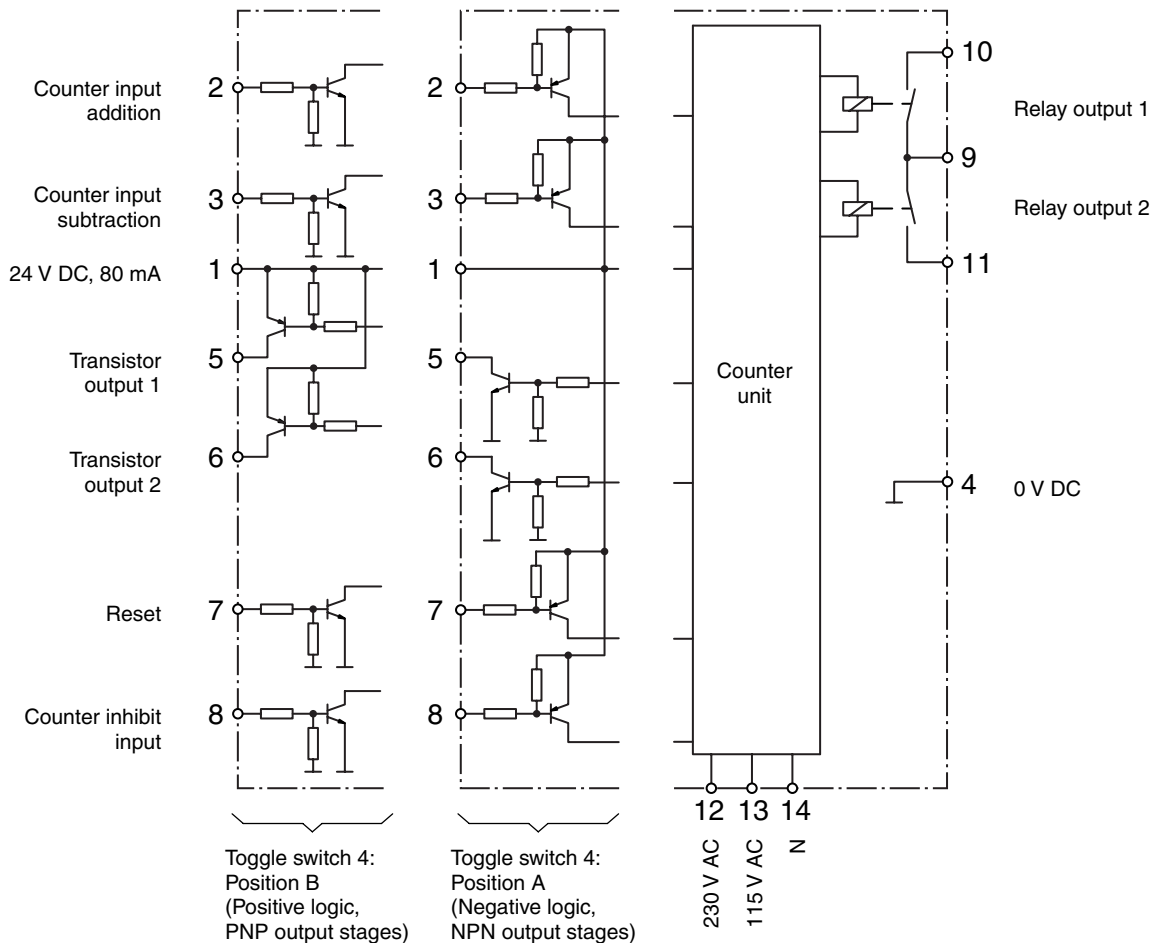
**Rear view of counter**



Dimensions



Electrical connection



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