## Plug-in 1 Channel Preset Counter Type 711

## with LED display



TECHNICAL DATA

- Adding/subtracting count direction
- 6-digit LED display
- Value retention approx. 10 years without battery (NV memory)
- Relay or transistor outputs
- Preset value can be entered with keypad
- Plugs into modular system 400

| Display | 6-digit LED |
| :---: | :---: |
| Digit height | 7 mm |
| Supply voltage $\mathrm{V}_{\text {op }}$ | $12 . . .24 \mathrm{VDC} \pm 10 \%$ |
| Max. current consumption | 120 mA on 12 VDC |
| Value retention | approx. 10 years, without battery (NV memory) |
| Operating temperature | $-10 \ldots+50^{\circ} \mathrm{C}$ |
| Storage temperature | $-20 \ldots+70^{\circ} \mathrm{C}$ |
| Mounting | modular system 400 |
| Mounting position | any |
| Protection class (EN 60529) | front IP 54; connections IP 00; for higher degree of protection we recommend a protective case with clear cover (see "accessories") |
| Interference immunity EMC | EN 50082-2 |
| Emission EMC | EN 50081-2 |
| Vibrostability (IEC 68) | $50 \mathrm{~m} / \mathrm{s}^{2}$ |
| Shock stability | $150 \mathrm{~m} / \mathrm{s}^{2} 11 \mathrm{~ms}$ |
| General design | acc. to DIN VDE 0411 |
| Inputs |  |
| Amplitude thresholds | $<2 \mathrm{~V}$ and $>8 \mathrm{~V}$, max. +40 VDC |
| Active edge | negative or positive, depending on version |
| Pulse shape | random (squarewave 1:1 for max. frequency) |
| Input resistance | approx. $22 \mathrm{k} \Omega$ |
| Count input | adding or subtracting, depending on program |
| Min. pulse length | $100 \mu \mathrm{~s}(5 \mathrm{kHz}), 17 \mathrm{~ms}(30 \mathrm{~Hz})$ |
| Max. counting frequency | 5 kHz or 30 Hz , programmable |
| Control inputs | static |
| Reset | - manual via keypad, secured against accidental reset <br> - electric reset with external reset pulse, pulse length $100 \mu \mathrm{~s}$, ( 5 kHz ) or $17 \mathrm{~ms}(30 \mathrm{~Hz})$ <br> - automatic reset after preset has been reached (only if programmed accordingly) |

## Outputs

Signal outputs
Signal duration
Relays
Type of contact
Switching voltage
Switching current
Transistor
Signal type
Switching voltage
Switchin
OUT
$50 \mathrm{~ms} . .$. bistable, adjustable
only in corresponding version
single pole changeover contact, floating
max. 250 VAC/50 VDC
max. $1 \mathrm{~A}, \mathrm{~min} .10 \mathrm{~mA}$
only in corresponding version
PNP or NPN, depending on version
$0 \vee$ or $V_{o p}$, depending on version
max. 40 mA

* Count and reset input are available with independently positive or negative active edge, if required.

PROGRAMMING

DIMENSIONS
with connection box
with connection box and panel frame

## Technical data

Application-specific programming is required before taking the counter into operation
Programming

|  | Function |  | Program switches |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|  | Reset input | $\begin{aligned} & 30 \mathrm{~Hz} \\ & 5 \mathrm{kHz} \end{aligned}$ | on off |  |  |  |  |  |  |
|  | Count input | $\begin{aligned} & 30 \mathrm{~Hz} \\ & 5 \mathrm{kHz} \end{aligned}$ |  | on off |  |  |  |  |  |
|  | Preset input | disabled enabled |  |  | on off |  |  |  |  |
|  | Auto reset | on offf |  |  |  | off on |  |  |  |
|  | Set mode | (Set) to $P$ (Res) ato „0" |  |  |  |  | on off |  |  |
|  | Count direction | subt. <br> add. |  |  |  |  |  | $\begin{aligned} & \text { on } \\ & \text { off } \end{aligned}$ |  |
|  | Button reset | disabled enabled |  |  |  |  |  |  | off on |



All dimensions in mm

## Technical data

ORDER INFORMATION
Counter

Accessories


| Version | PNP | NPN |
| :--- | :--- | :--- |
| Relay output | 0711410 | 0711400 |
| Transistor output | 0711427 | 0711424 |
| Output signal-memory | 0711419 | - |
| Connection box 12 ... 24 VDC |  |  |
| Connection box 24 VAC | 1405670 |  |
| Panel frame black | 1711047 |  |
| Power supply unit with connection box 220 VAC | 1405492 |  |
| Power supply unit with connection box 110 VAC | 1711010 |  |
| Case with protective cover | 1711011 |  |

## Output signal memory

The signal status of the output is stored in case of a power supply failure and re-established when the power supply is restored.
Please inquire for the following options:

- Decimal point at one of the last 3 digits

