

**General Specifications:**

- 2x6 Digit display, double PRESET, double OUT, up/down counter
- Counts switch, proximity switch & incremental encoder input
- Password protection
- Selectable input frequency
- Calibration constant; 0.00001.....9.99999
- Selectable decimal point; 1.....3. Digit
- 7 input / 10 output function options
- Adds "OFFSET" to Count Value
- PRESET1; Absolute / Relative option
- OUT; latch or 0.1....999.9 seconds pulse
- Loads count value & OUT status at the lastest power failure after the first power on
- RESET via front panel
- Displays Preset ½ values
- EEPROM memory to store settings

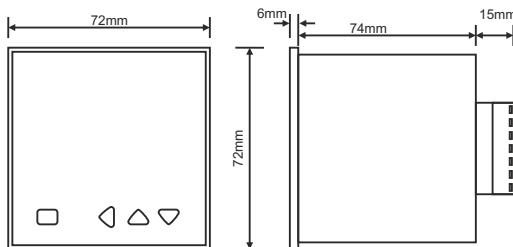
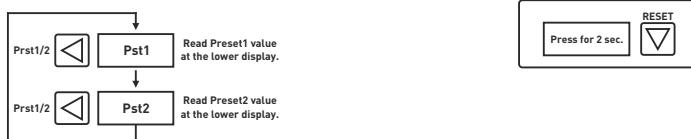
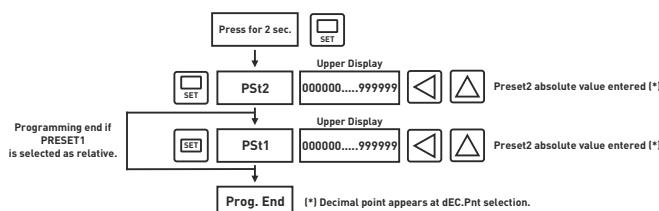
**Technical Specifications:**

- Panel Hole Sizes : 67x67mm
- Display : 2x6 Digit 7 Segment display
- Count Input : 2 x (Max: 7500 Hz, 5-30V)
- NPN Selection : Connect "npn select" to "+12V" to select NPN sensor for Cp1 and Cp2. Reset input is always PNP. For totem pole or PNP type sensor "npn select" left unconnected.
- Sensor Types : PNP/NPN proximity switch - NPN/PNP/Totem-pole output encoder
- Input Frequency : 20, 50, 2500, 7500 Hz selectable.
- Reset Input : 10ms [min], Positive input [PNP only] (5....30V)
- Output : Out1, Out2; 2x Relay (O-NO-NC), 250VAC, 2A, Rezistif Yük 2x Open Collector (NPN), 30V, 100mA max.
- Sensor Supply : 12VDC, 50mA(max.) unregulated
- Supply Voltage : 100...240VAC, 50-60Hz
- Power Consump. : < 8VA
- Operating Temp. : -20 °C...55 °C
- Operating Altitude : < 2000m

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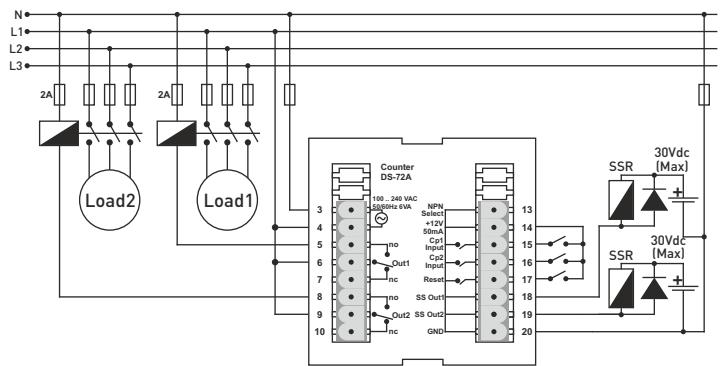
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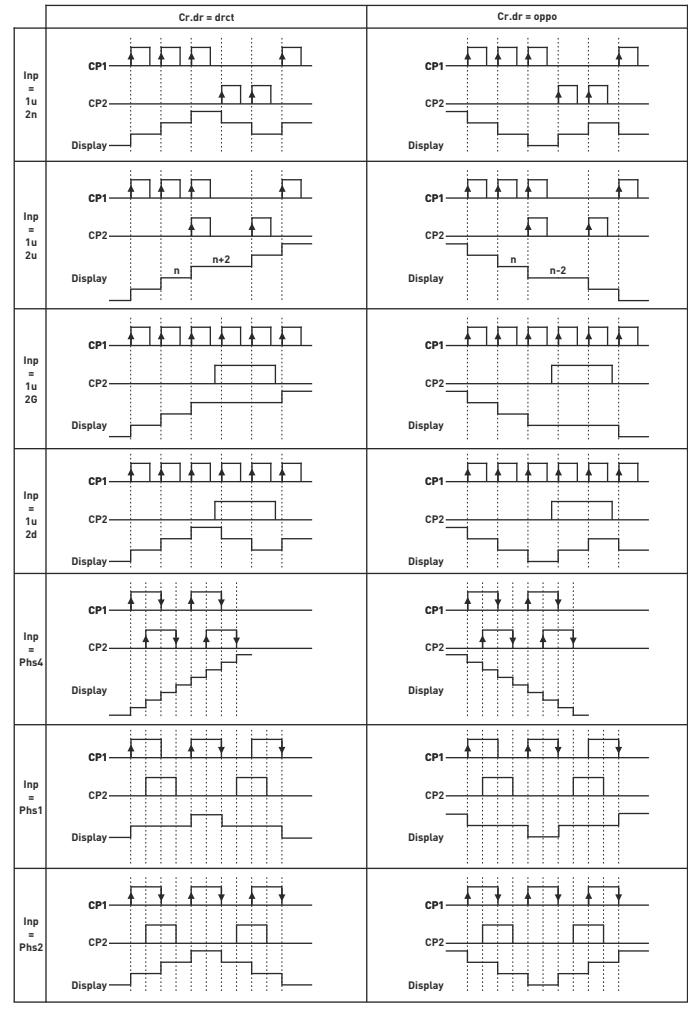
**Dimensions****Programming Steps****Reading Preset1 / Preset2 value at lower display:****Programming Preset1 and Preset2 Absolute Values:****Warning:**

- Use shielded and twisted signal cables and connect shield to ground. Keep all signal cables away from circuit breakers, inductive loads, device/cables emitting electrical noise and power cables.
- Take precautions against environmental conditions like humidity, vibration, pollution and high/low temperature during installation.
- Use fuse [F250mA 250VAC] on mains/supply input of the device. Use appropriate cables for supply connections. Apply safety regulations during installation.
- Prefer to use [Input = Phase1] option for encoders, select [In.Freq = 20] to count mechanical switch ON-OFF pulses, select the minimum input frequency option that suits your application.

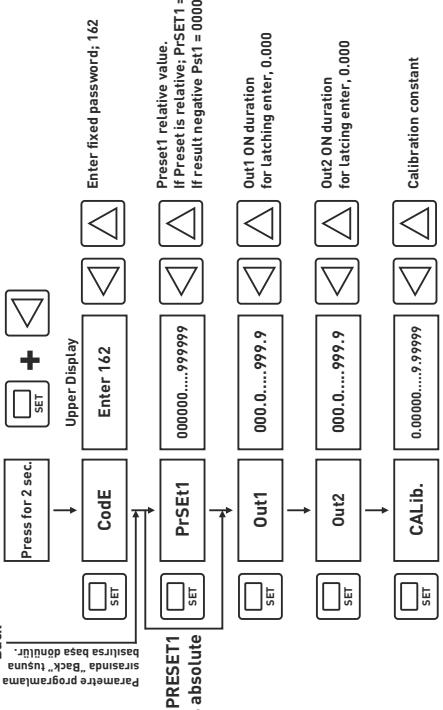
For Input = 1up2up, 1up2dn, Phase2; input signal frequency shall be at most ½ of the selected input frequency option if both inputs are used. And for Input = Phase4; input signal frequency shall be at most ¼ of the selected input frequency option if both inputs are used.

**Connection****Notes:**

- Connect SS Out return pin directly to GND.
- Use free-wheeling diode to protect SS Out.
- To select PNP option; connect "npn select" to "+12V".

**Input Types**

## Programming Parameters:



## Operating Modes

	Input = 1up.2up, 1up.2dn, Phase.4 Cnt.dir = direct	Input = 1up.2up, 1up.2dn, Phase.4 Cnt.dir = opposite	Input = 1up.2up, 1up.2dn, Phase.2 Cnt.dir = direct	Input = 1up.2up, 1up.2dn, Phase.2 Cnt.dir = opposite
<b>Comment</b>	Counting continues up/down until RESET ON after. Preset1 or Preset2 is reached. OUT1 pulse is independent of OUT2.	Counting continues up/down until RESET ON after. Preset1 or Preset2 is reached. OUT1 pulse is independent of OUT2.	Counting continues up/down until RESET ON after. Preset1 or Preset2 is reached. OUT1 pulse is independent of OUT2.	Counting continues up/down until RESET ON after. Preset1 or Preset2 is reached. OUT1 pulse is independent of OUT2.
<b>PrSET1</b>	Reset 999999 Preset2 Preset1 Offset 0 Out1 Out2	Reset 999999 Preset2 Preset1 Offset 1 Out1 Out2	Reset 999999 Preset2 Preset1 Offset 0 Out1 Out2	Reset 999999 Preset2 Preset1 Offset 1 Out1 Out2
<b>Out1</b>	Out1 Out2	Out1 Out2	Out1 Out2	Out1 Out2
<b>Out2</b>	Out1 Out2	Out1 Out2	Out1 Out2	Out1 Out2
<b>Calibration constant</b>	1up.2dn, 2up.2up, 1up.26t, 1up.2dr, Phase.4, Phase.1, Phase.2	1up.2dn, 2up.2up, 1up.26t, 1up.2dr, Phase.4, Phase.1, Phase.2	1up.2dn, 2up.2up, 1up.26t, 1up.2dr, Phase.4, Phase.1, Phase.2	1up.2dn, 2up.2up, 1up.26t, 1up.2dr, Phase.4, Phase.1, Phase.2
<b>Input options</b>	△	△	△	△
<b>Operating modes</b>	△	△	△	△
<b>ConFG</b>	0....9	0....9	0....9	0....9
<b>dEC.Pnt</b>	0.00.00.0.0000, 0.00000..0.00000	0.00.00.0.0000, 0.00000..0.00000	0.00.00.0.0000, 0.00000..0.00000	0.00.00.0.0000, 0.00000..0.00000
<b>Cnt.dir</b>	direCt, oPPos.	direCt, oPPos.	direCt, oPPos.	direCt, oPPos.
<b>In.Freq</b>	20, 500, 2500, 7500 Hz	20, 500, 2500, 7500 Hz	20, 500, 2500, 7500 Hz	20, 500, 2500, 7500 Hz
<b>Pon.rES</b>	YES, no	YES, no	YES, no	YES, no
<b>oFFSEt</b>	000000....999999	000000....999999	000000....999999	000000....999999
<b>PrSEt1</b>	Absolt, rELAn.	Absolt, rELAn.	Absolt, rELAn.	Absolt, rELAn.
<b>PrSEt1 = PrSET2 - PrSET1.</b>	PrSET1 = PrSET2 - PrSET1. If Preset1 is relative; PrSET1 = PrSET2 - PrSET1. If result negative Prst1 = 000000. (*)	PrSET1 = PrSET2 - PrSET1. If Preset1 is relative; PrSET1 = PrSET2 - PrSET1. If result negative Prst1 = 000000. (*)	PrSET1 = PrSET2 - PrSET1. If Preset1 is relative; PrSET1 = PrSET2 - PrSET1. If result negative Prst1 = 000000. (*)	PrSET1 = PrSET2 - PrSET1. If Preset1 is relative; PrSET1 = PrSET2 - PrSET1. If result negative Prst1 = 000000. (*)
<b>Comment</b>	OUT1 is ON when counter is equal to Preset1 else. OUT2 is ON when counter is less than equal to Preset1 else OUT2 is OFF. Use SS. OUTs if ON duration is too small for relay ON time.	OUT1 is ON when counter is less than equal to Preset1 else OUT2 is ON when counter is greater or equal to Preset2 else OUT2 is OFF.	OUT1 is ON when counter is less than equal to Preset1 else OUT2 is ON when counter is greater or equal to Preset2 else OUT2 is OFF.	OUT1 is ON when counter is greater than Preset1 else OUT2 is ON when counter is greater or equal to Preset2 else OUT2 is OFF.

**■ Latched Output**

**□ Pulse**

Note: If no entry is done for 20 sec. during programming, current entries are accepted and saved to EEPROM memory.