

**General Specifications:**

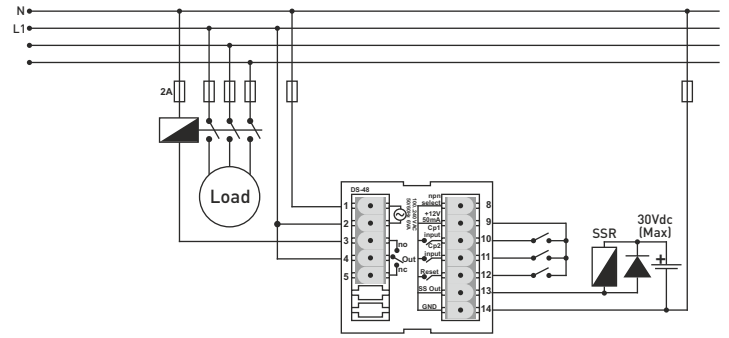
- 2x4 Digit display, single PRESET, single OUT, up/down counter
- Counts switch, proximity switch & incremental encoder input
- Password protection
- Selectable input frequency
- Calibration constant; 0.001.....9.999
- Selectable decimal point; 1.....3. Digit
- 7 input / 9 output function options
- Adss "OFFSET" to Count Value
- OUT; latch or 0.1.....999.9 seconds pulse
- Loads count value & OUT status at the latest power failure after the first power on
- RESET via front panel
- Displays Preset ½ values
- EEPROM memory to store settings

**Technical Specifications:**

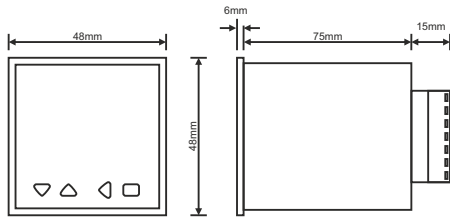
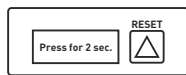
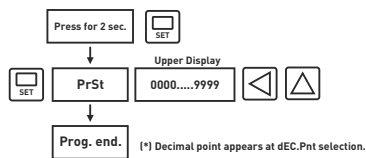
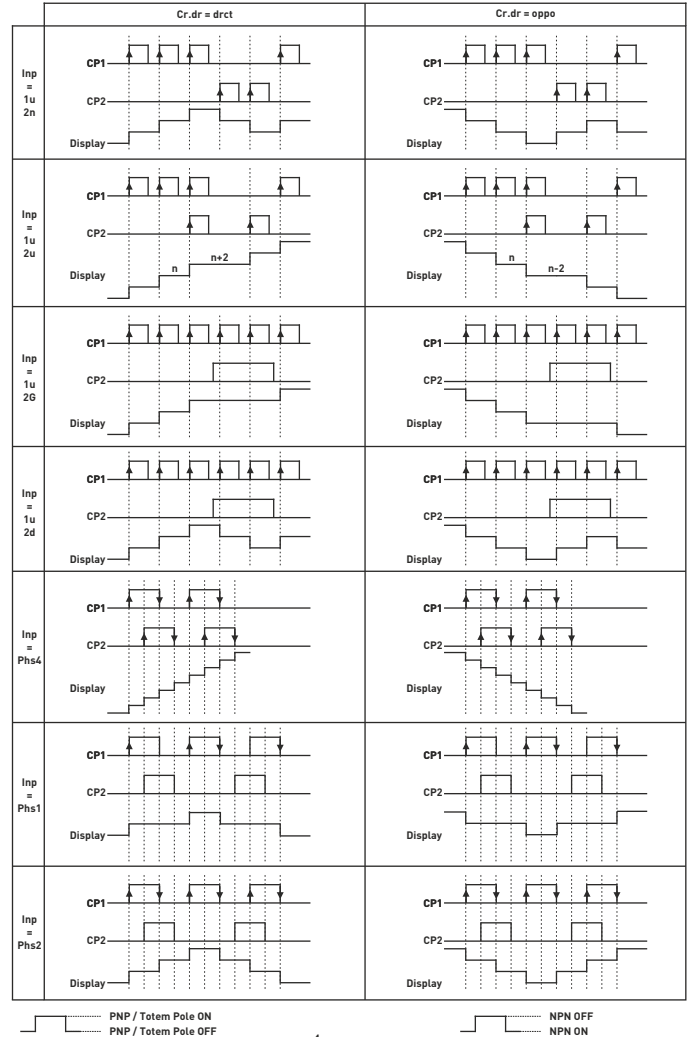
- Panel Hole Sizes : 44x44mm
- Display : 2x4 Digit 7 Segment display
- Count Input : 2 x (Max: 7500 Hz, 5-30V)
- NPN Selection : Connect "nnp select" to "+12V" to select NPN sensor for Cp1 and Cp2. Reset input is always PNP. For totem pole or PNP type sensor "nnp select" left unconnected.
- Sensor Types : 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 : Out; Relay [0-NO-NC], 250VAC, 2A, Resistif Yük 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

**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 [Inpt = Phs1] option for encoders, select [Freq = 20] to count mechanical switch ON-OFF pulses, select the minimum input frequency option that suits your application.
- For Inpt = 1u2u, 1u2d, Phs2; input signal frequency shall be at most ½ of the selected input frequency option if both inputs are used. And for Inpt = Phs4; input signal frequency shall be at most 1/4 of the selected input frequency option if both inputs are used.

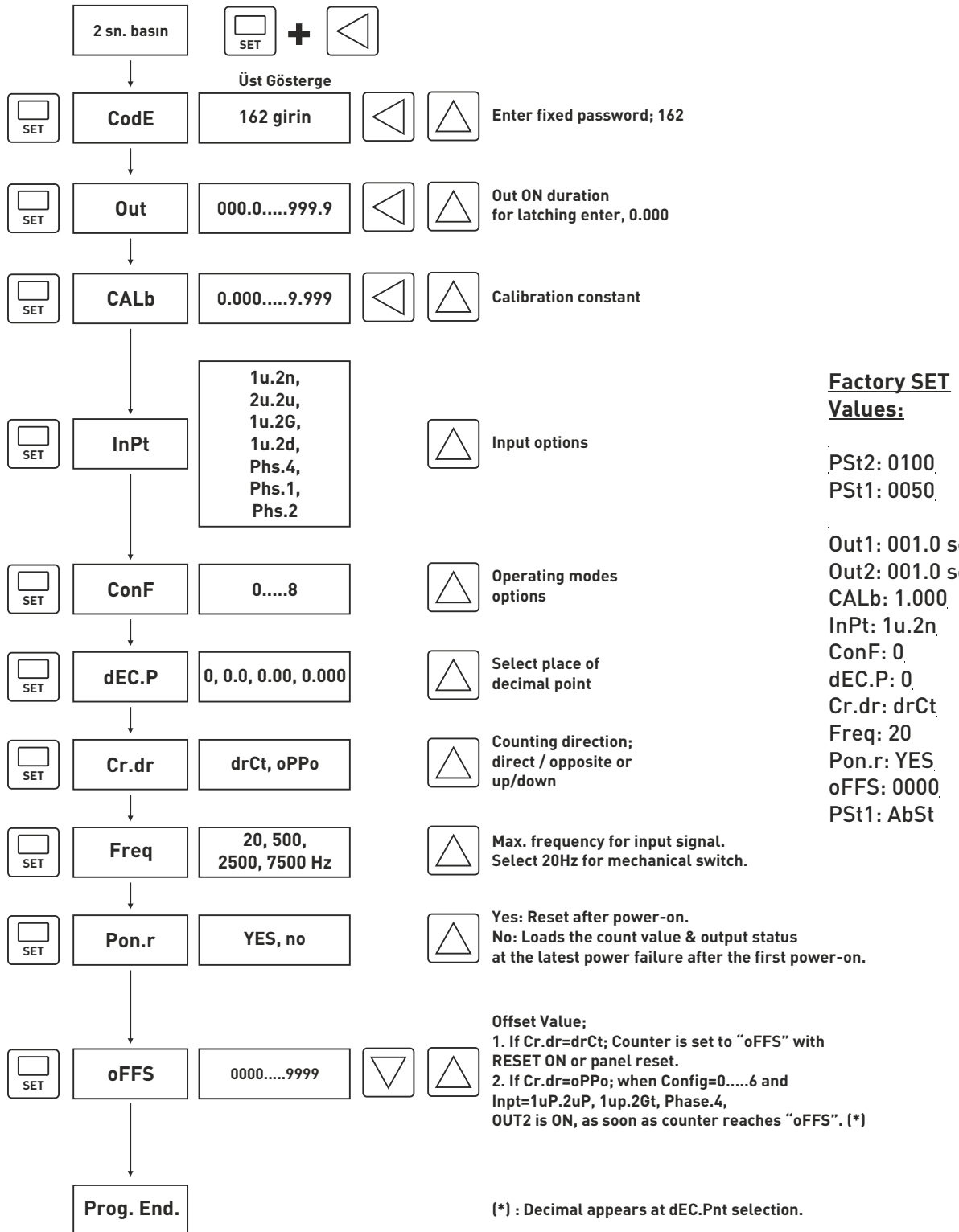
**Connection**

**Notes:**

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

**Dimensions**

**Programming Steps:**
**Front Panel RESET:**

**Programming Preset Value:**

**Input Types**

 PNP / Totem Pole ON  
 PNP / Totem Pole OFF

 NPN OFF  
 NPN ON

# Programming Parameters:



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

# Operating Modes

	Inpt = 1u2u, 1u2G, Phs4 Cr.Dr = drct	Inpt = 1u2u, 1u2G, Phs4 Cr.Dr = oppo	Inpt = 1u2n, 1u2d, Phs1, Phs2	Comment
Conf 0				Counting continues up/down until RESET ON after, Preset is reached.
Conf 1				Counting stops until RESET ON after Preset is reached.
Conf 2				Counting continues up/down until RESET ON after Preset is reached.
Conf 3				Counter is reset after Preset is reached.
Conf 4				Counting continues up/down after Preset is reached. Counter is reset with OUT pulse OFF.
Conf 5				Counting stops after Preset is reached. Counter is reset OUT pulse OFF.
Conf 6				Counter is reset after Preset is reached but display freezes until the end of OUT pulse.
Conf 7				OUT is ON when counter is equal to Preset else OFF. Use SS Out if ON duration is too small for relay ON time.
Conf 8				OUT is ON when counter is greater or equal to Preset else OFF. Use NC pin of OUT if less then is required.

■ Pulse

□ Latched Output