

# Preset Counters

LED Preset Counters	2 Presets	Codix 560
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With its automatic help texts, clearly and legibly displayed on 14 LED segments, the Codix 560 preset counter takes the user effortlessly through the programming. The large user-friendly front keys can be operated even when wearing gloves.



<b>DC</b> 10 ... 30 V Power supply	<b>AC</b> 90 ... 260 V Power supply	<b>-20° +65°</b> Temperature range	<b>000000</b> DIN 96 x 48 DIN front bezel	<b>PROGRAM</b> Menu-driven programming	<b>IP 65</b> High IP value	<b>max.</b> 60 kHz High count frequency	<b>Hz</b> Multifunction	<b>t/Hz</b> HRA Frequency display with HRA	<b>POSITION</b> Position display	<b>A..Z*</b> LED 1 x 6 LCDs
<b>Batch</b> Batch counter	<b>Σ</b> Total counter									

### Multifunction

- Counter, Tachometer, Timer and Position Display in one device
- Can be used as Preset Counter, Batch Counter or Total Counter
- Many different count modes
- Scalable display
- Set value
- Multi-range power supply for AC or DC

### User-friendly:

- Automatic help texts, displayed in German and English
- 14-segment LED for improved text representation
- Status display of the presets
- 3 predefined parameters
- Tracking presets eliminate the need for reprogramming of the pre-signal
- Minimum installation depth
- 4-stage RESET modes
- 3-stage keypad locking
- Suitable for installation in mosaic systems

### Order code

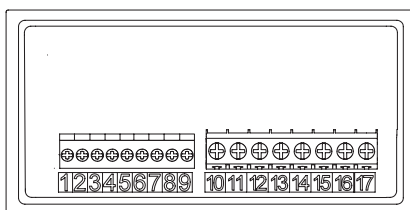
6.560 . 010 . XX0  
① ②

- ① **Supply voltage**  
0 = 90 ... 260 V AC  
3 = 10 ... 30 V DC

- ② **Input trigger levels**  
0 = Standard level (HTL)  
A = 4...30 V DC level

- Delivery specification**  
- Preset counter  
- Mounting clip  
- Instruction manual

### Connections



#### Signal and Control inputs

- 1 – INP A (Signal input A)
- 2 – INP B (Signal input B)
- 3 – RESET (Reset input)
- 4 – LOCK (Keypad lock)
- 5 – GATE (Gate input)
- 6 – MPI 1 (User input 1)
- 7 – MPI 2 (User input 2)
- 8 – Sensor supply voltage  
AC: 24 VDC/80 mA  
DC: UB connected through
- 9 – Shared connection for signal and control inputs  
GND (0 VDC)

#### Version with relay/optocoupler

- 10 – Relay contact C.2
  - 11 – Relay contact N.O.2
  - 12 – Relay contact N.C.2
  - 13 – Relay contact C.1
  - 14 – Relay contact N.O.1
  - 15 – Relay contact N.C.1
  - 16 – AC: 90..260 VAC N~  
DC: 10..30 VDC
  - 17 – AC: 90..260 VAC L~  
DC: GND (0 VDC)
- Output 1 (pins 10, 11, 12)  
Output 2 (pins 13, 14, 15)  
Supply voltage (pins 16, 17)

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**Technical data**

<b>Sensor supply voltage</b>	AC	90 ... 260 V AC max. 11 VA, 50/60 HZ
	DC	10 ... 30 V, max. 5,5 W
<b>External fuse protection</b>	230 V AC	T 0,1 A
	10 ... 30 V DC	T 0,25 A
<b>Display</b>	6-digit, 14 segment LED Display, 14 mm [0.551"] high	
<b>Data retention</b>	> 10 years, EEPROM	
<b>Response time of the frequency meter:</b>	100 / 600 ms, for details, see instruction manual	
<b>Input modes</b>	Input modes:	Count direction (cnt.dir), Difference (up.dn), Addition A+B (up.up), phase discriminator x1, x2, x4 (quad, quad x2, quad x4), Ratio (A/B), Ratio in % ((A-B)/A x 100%)
	Frequency meter:	A, A-B, A+B quad, A/B, (A-B)/A x 100%
	Timer:	4 Start modes: FrErun, Auto, InpA.InpB., InpB.InpB.
<b>Sensor supply voltage</b>	AC supply	24 V DC ± 15%, 80 mA
	DC supply	max. 50 mA, external supply voltage is connected through
<b>Operating temperature</b>	-20 °C ... +65 °C	
<b>Storage temperature</b>	-25 °C ... +75 °C	
<b>Relative humidity</b>	at +40 °C	r.F. 93%, non-condensing
<b>Altitude</b>	up to 2000 m	
<b>EMV</b>	Emitted interference	EN55011 Class B
	Immunity to interference	EN 61000-6-2
<b>Device safety</b>	EN 61010 part 1; Protection 2	
<b>Application area</b>	Soiling Level 2	
<b>Protection</b>	IP65 (from the front)	
<b>Weight</b>	AC version	approx. 180 g

**Inputs**

<b>Count inputs</b>	A and B		
<b>Polarity of the inputs</b>	programmable for all inputs in common NPN/PNP		
<b>Input resistance</b>	5 kΩ		
<b>Count frequency</b>	max. 5 kHz (details see manual) can be damped to 30 Hz (mechanical contacts)		
<b>Control / Reset input</b>	MPI 1 and MPI 2, Lock, Gate, Reset		
<b>Min pulse duration of the inputs</b>	10 ms / 1 ms		
<b>Switching levels with DC supply</b>	HTL-level:	low:	0 ... 4 V DC
		high:	12 ... 30 V DC
	4 ... 30 V DC:	low:	0 ... 2 V DC
		high:	3,5 ... 30 V DC
<b>Switching levels with AC supply</b>	HTL-level:	low:	0 ... 0,2 x UB
		high:	0,6 x UB ... 30 V DC
	4 ... 30 V DC:	low:	0 ... 2 V DC
		high:	3,5 ... 30 V DC
<b>Pulse shape</b>	variable, Schmitt-Trigger characteristics		

**Outputs**

<b>Switching voltage</b>	max. 250 V AC / 150 V DC	
<b>Switching current</b>	max. 3 A AC / DC min. 30 mA DC	
<b>Switching capacity</b>	max. 750 VA / 90 W	
<b>Output 1 + 2</b>	Mech. service life (switching cycles)	
	N° of switching cycles at 3 A / 250 V AC	2 x 10 <sup>7</sup>
	N° of switching cycles at 3 A / 30 V DC	5 x 10 <sup>4</sup>
	Relay with changeover contact	5 x 10 <sup>4</sup>
<b>Reaction time of the outputs</b> (pulse / time)	13 ms Details s. instruction manual	

**Dimensions**

