

Digital stroke counter

Type: BC-C01



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Note:

Before you proceed to operate the digital readout, acquaint yourself thoroughly with this manual.
Warranty claims caused by improper operation cannot be accepted.

1. Basic features

The BC-C01 digital stroke counter is designed to display number of repetitions of regularly repetitive processes. The counter can be installed eg. in a press to count number of products.

Standard features:

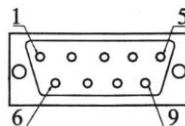
- 6-digit LED display + sign
- height of the digits 14 mm
- pulse magnetic sensor
- product identification number setting
- setting of number of pulses (strokes) required to produce one piece
- setting of number of pieces for a given product
- number of pieces addition/subtraction
- service interval
- possible defective products reading

2. Technical specifications

Power voltage:	standardly: 9 V/DC. Pin connector 1+6 (0 V) and 5+9 (+Ucc) – power supply: In 230 V/50 Hz, Out 9 V/DC (part of delivery) volitelně: 17-24 V/AC i DC
Max current:	150 mA
Operating temperature range	+10 to +40 °C
Counting frequency:	150 KHz
Weight:	0,2kg

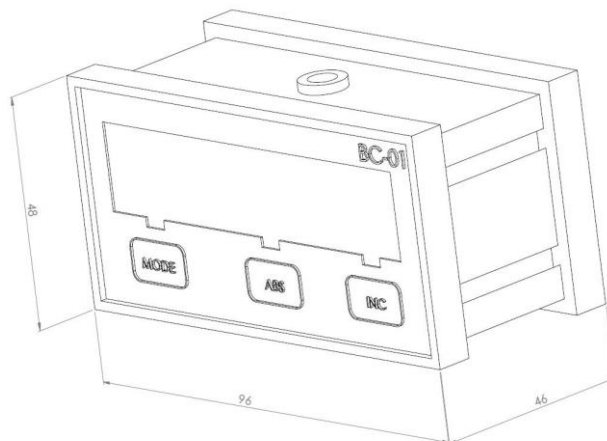
Popis konektoru napájení

- konektor typu D-SUB9 – samec



Pin	1	2	3	4	5	6	7	8	9
Signál	0 V	-	-	-	+Ucc	0 V	-	-	+Ucc

size:



3. Digital readout setup

The following tables describe individual digits on the display for setting the readout functions:

- 1 – function is active
- 0 – function is blocked

Way of value setting:

- Press the SET button to increase the value.
- Press the PCS button to switch to the next digit
- Press the PROD button to confirm the set value.

3.1 Product identification number setting

During power on press and hold the PROD button.

This function enables you to set identification number of the product. Up to 64 products can be stored into the memory of the counter.

	Product No. 1-64 setting					
Position from the left side	X	X	X	X	0-6	0-9

3.2 Number of pieces setting

During power on press and hold the PCS button.

This function enables you to set number of pieces of the given type of product. Acceptable values are 1 – 999999.

Position from the left side	0 – 9	0 – 9	0 – 9	0 – 9	0 – 9	0 – 9
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3.3 Number of strokes of given product setting

During power on press and hold the SET button.

Set number of strokes required to produce one piece of the product. Acceptable values are 1 – 8 zdvihů strokes.

Position from the left side	X	X	X	0	0	0
				↓	↓	↓
				1 stroke	0	0
				2 strokes	0	0
				3 strokes	0	1
				4 strokes	0	1
				5 strokes	1	0
				6 strokes	1	0
				7 strokes	1	1
				8 strokes	1	1

3.4 Service interval setting

During power on press and hold the PROD+SET buttons.

The set number of strokes is multiplied by 1000

Example: Set value: 0 0 0 0 0 1

Number of strokes required to produce one piece of the product: 5

Result service interval: 1 x 1000= 1000 strokes = 200 products

No. of strokes	0-9	0-9	0-9	0-9	0-9	0-9

4. Digital readout operation

After switching the counter on, the name 'BC-C01' appears on the display shortly. After that the display shows number of the product and the LED over the PROD button is on.

4.1 PCS button

- Press this button shortly to display number of products produced after switching the counter on.
- The LED over the PCS button is on.
- Long pressing of this button during product counting results in displaying of total number of produced products.
- If number of pieces required for this product is set (refer to the section 3.2), the counter shows number of not yet finished pieces (by long press of the button PCS). In this case will be LEDs over the PROD and PCS button on. **The relay output can be used in this mode only.**

4.2 SET button

- Press this button shortly to display number of strokes required to finish the current product.
- Long pressing of this button results in displaying a message SETUP = machine adjustment.
- The SETUP mode is intended for machine adjustment. All the strokes indicated during this mode are not accepted, i.e. they do not influence the recorded number (are not added or subtracted).

4.3 PROD button

- Long pressing of this button enables you to change the product.
- The display shows: 0 0 0 0 0.
- After setting the product number and its confirmation the counter is switched to the new product (updates number of strokes required for the given product, number of pieces etc.)
- If the product have not been produced yet, a message 'HELP' appears on the display and the user should ask his chief to set parameters of the new product.

4.4 Defectice products reading

- Long pressing of the PCS button and than every short pressing of the SET button subtracts one defective product produced during the workshift.
- NOTE: it is not possible to subtract products in past periods (yesterday etc.)

4.5 Service

- If the message 'SERVIS' appears on the display, the set number of strokes required for the set service interval was reached – refer to the section 3.4
- The user should ask for check or service of the machine
- The check is finished after setting a new service interval – refer to the section 3.4