

- Low cost
- Easy programming
- Universal counting input
- Counting input optical isolation
- Additional RESET input available
- 6 modes of operation of the counter and the relay output
- Programmable input multiplying coefficient
- 4-digit LED display - up to 9999 units
- 48x48 mm DIN-sized front panel

### DESCRIPTION

BDC38 is a single-channel programmable counter with simplified programming. The device has a 4-digit display and can count up to 9999 input pulses. BDC38 may work as up or down counter. The device has a relay output for switching on and off electrical actuators. Relay output action at reaching the preset counter value is user programmable. BDC38 offers 4 counting modes and 2 output action modes. The device features optical input isolation, and, optionally, an additional RESET input. The counter input is universal, allowing connection of both mechanical contacts and electronic sensors. A software preliminary multiplying coefficient is available, allowing counting several units at each pulse. With its compact size, easy programming, and attractive price, the BDC38 counter is widely used in machine manufacturing and various other areas.

### TECHNICAL SPECIFICATIONS

**Construction** : Panel design to standard DIN 48 x 48mm  
 Plug-in to relay socket

**Housing** : Plastic

**Isolation** : Input to output to supply

**Indication** : 3 x LEDs, one 4-digit LED

**Keyboard** : 6 membrane keys

### INPUT

**Counting** : Mechanical contact (NO) or electronic (from PNP/NPN sensor)

**Input type selection** : Automatic

**Input RESET** : NO contact reset the counter to 0

**Frequency** : Max 500Hz

**Filter** : For suppression of contact bouncing

**Prescaler multiplying coeff**: 1-999 programmable

**Prescaler dividing coeff** : 1-999 programmable

### MODES

**Operating modes** : 7 (incl. dosing mode)

**Counting modes** : 4 combinations possible

**Counting range** : 0-999999

**Output action** : 2 combinations possible

**Programming** : Through keyboard

### OUTPUT

**Relay** : 250VAC 5A, NO/NC or NO contact

**SSR** : 250VAC 1A

**Transistor gate** : Open collector NPN 40V/40mA

**Extern SSR** : (12)24VDC/50mA

**Relay action** : According to the mode

**Output pulse duration**: 0,1 to 9,9 sec programmable

**Input isolation** : Optical 750VAC



### INSTALLATION

**Supply** : 115, 250VAC, 9 to 12VAC or 12VDC

**Ambient temp** : -10 to +65°C, RH 0 till 85%

**Mounting** : Panel with bracket or DIN rail with plug-in socket

**Protection class** : IP40 front, IP20 rear

**Dimension** : B48 x H48 x D92mm

**Weight** : 250g with socket and bracket

### PERFORMANCE

**Accuracy error** : < ±0.005% FS

**Display** : 4-digit LED  
 3 LEDs for outputs and modes

**Keyboard** : 6 membrane keys

**Power consumption** : 2 VA

**EMC** : EN 50081-1, EN 50082-2, EN 61010-1  
 73/23/EEC & 89/336/EEC



### ORDER INFORMATION

**BDC38**

<b>SUPPLY</b>	<b>OUTPUT</b>	<b>RESET</b>	<b>INPUT</b>
A 230VAC	C Relay	X None	
B 115VAC	D SSR	A Contact	
D 12VDC	E NPN		
E 9-12VAC	J Extern SSR		