

- wall mounted IP 65 case
- High-accuracy fully programmable counter
- Programmable divider, multiplier and offset
- Multi-purpose counter with batching function
- 2 pulse counting inputs
- Up-down and down-up or quadrature
- Freely programmable 2 relay or OC outputs
- Digital interference eliminator
- 6-digit LED display-up to 999999 units
- Interface RS-485

**DESCRIPTION**

The universal, programmable counter BDC118 is equipped with two independent counting inputs that can operate in various configurations (pulse or quadrature). Additional programmable input can change basic function of counting inputs (addition or subtraction of pulses from inputs, change the direction of counting) or hold counting without clearing. The BDC118 counter features an independent reset input. It has 2 relay (or OC) outputs with programmable thresholds, which can be used to control external equipment. Build in RS-485 communication interface enables controlling of all settings by host, and allows use of unit in advanced network systems. Typical applications- universal counting input (quadrature, pulse),- digital debouncing filter,- programmable multiplier, divider, offset and decimal point position,- 4 counter reset sources (manual, ext, auto, modbus),- programmable relays operation mode (over and under setpoint),- relays (or OC) operation time programmable to 99 min.,- ACCESS option for easy threshold modification,- available with AC and DC power supply versions.

**TECHNICAL SPECIFICATIONS**

**Construction** : Panel design to standard DIN  
**Housing** : ABS Fibreglass  
**Isolation** : Input to output to supply  
**Indication** : 4 x LED for outputs, 6-digit x 13mm high red LED (green on request)  
**Keyboard** : 5 membrane keys

**INPUT**

**Counting** : Mechanical contact (NO) or electronic (from PNP/NPN sensor)  
**Active front selection:** Programmable  
**Input RESET** : NO Reset the counter to 0  
**Frequency** : Max 10kHz,(5kHz for quadrature) (Contact max 90Hz adjustable filter)  
**Filter** : For suppression of contact bouncing  
**Preliminary divider** : programmable

**MODES**

**Counting modes** : 8 combinations  
**Output action modes:** 4 combinations  
**Counting range** : -999999 to 999999  
**Programming** : Through keyboard

**OUTPUT**

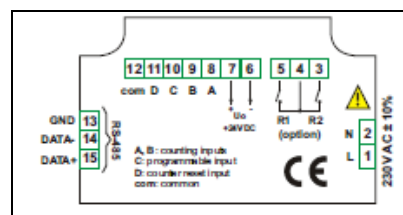
**Output** : 2 outputs  
**Relay** : 250VAC 1A, NO contact  
**OC** : Open collector 30V/40mA  
**Sensor supply** : 24VDC +5% -10% 100mA (not isolated)  
**Communication:** RS485 MODBUS 1200 to 115100 bit/s (not isolated)


**INSTALLATION**

**Supply** : 115, 230VAC, 24VAC  
 24VDC  $\pm$  15% not separated  
**Power consumption** : 4,5 VA, max 4,5W  
**Ambient temp** : -20 to +70°C, RH 0 till 85%  
**Mounting** : wall-mounted  
**Protection class** : IP65  
**Dimension** : 110 x 80 x 67 mm;  
 with glands: 110 x 105 x 67 mm  
**Weight** : 500g

**PERFORMANCE**

**Accuracy error** : <  $\pm$ 0.001% FS  
**Display** : 6-digit LED, 5 LEDs  
**Keyboard** : 5 membrane keys  
**Communication:** RS485 MODBUS 1200 to 115100 bit/s  
**EMC** : EN 50081-1, EN 50082-2, EN 61010-1  
 73/23/EEC & 89/336/EEC


**ORDER INFORMATION**
**BDC118-15XX-1-X-XX1**

**number of outputs:**  
 0  
 2

**options:**  
 00 : no options  
 08 : operating temp.  
 -20°C  $\pm$  +50°C

**type of outputs:**  
 0 : no output  
 1 : REL  
 2 : OC

**power supply:**  
 1 : 24V DC  
 2 : 230V AC  
 5 : 24V AC  
 8 : 110V AC