To prevent screw tightening skipping!
Screw counter

STC3
Series

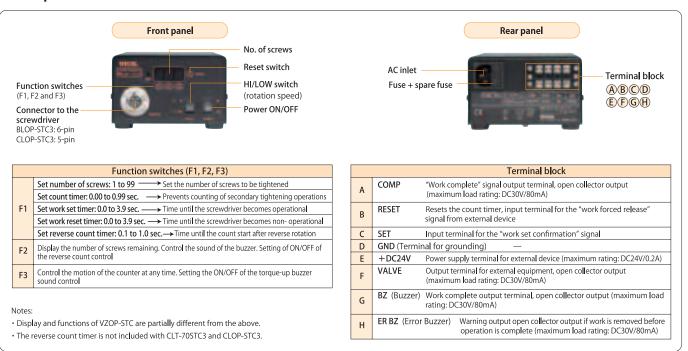
The number of screws to be tightened can be set from 1 to 99, with the remaining number counted down after each screw is tightened.

- A buzzer will sound when the final screw has been tightened to notify you of screw tightening completion.
- The countdown number is automatically reset after all screws have been tightened so that work can start on the next job immediately. The screwdriver will not be operable until the next "work set confirmation" SET signal is input (not applicable to SC3 Series).
- Prevents confirmation tightening, additional tightening and secondary tightening from being counted.
- Can be used as a normal power supply by disabling the count function. (Applicable only to BLOP-STC3 and CLT-70STC3)

| | | | | Screw counter | | | Separate counter (external type) | | |
|----------------|-------------------------------------|----------------------------|-------------------|----------------------------------|-----------------------------------|------------|----------------------------------|----------|--------------------|
| Model | | | Model | STC3 Series | | STC Series | SC1 Series | | SC3 Series |
| | | | | BLOP-STC3 《power supply type》 | CLT-70STC3 《power supply type》 | VZOP-STC | BLOP-SC1 | CLOP-SC1 | Mini type BLOP-SC3 |
| | unctions & compatible rewdrivers | | | 0 | 0 10 | | 0 | ō | - 1775 m |
| | Num | ber of sc | ews (1 to 99) | • | • | • | • | • | • |
| | Coun | nting Forward (count-down) | | • | • | • | • | • | • |
| | direc | | erse (count-up*) | • | - | • | • | - | • |
| Counting | Disp | , | | • | • | • | • | • | • |
| Ħ | | Count timer | | • | • | • | • | • | • |
| 9 | Build | | rk set timer | • | • | • | • | • | - |
| | time | | rk reset timer | • | • | • | • | • | • |
| | | Reverse count timer | | • | _ | • | • | - | • |
| | Power supply for external devices © | | | • | • | • | • | • | - |
| Externa output | Control output(A), (E), (G) | | | • | • | • | • | • | - |
| put | Control input©, ® Error output® | | | • | • | • | • | • | - |
| | | | | • | • | • | • | • | - |
| | | Brushless | BLG-BC1 Series | • | _ | - | • | - | - |
| | DC type | | BLG Series (OPC) | • | | - | • | - | • |
| S | | | BL Series (OPC) | • | = | = | • | - | • |
| crev | | Brushed | CL Series | - | • | - | - | • | - |
| \dr | | | | - | • | - | = | • | - |
| Screwdrivers | | | α Series | _ | • | = | - | • | - |
| S. | AC type | Brushles | VB Series (OPC) | - | - | • | = | _ | - |
| | | | VBH Series (OPC) | - | _ | • | = | _ | - |
| | Brushed | | d VZ Series (OPC) | - | = | • | = | - | - |

^{*} If you unscrew during operation, the count number will go back by one.

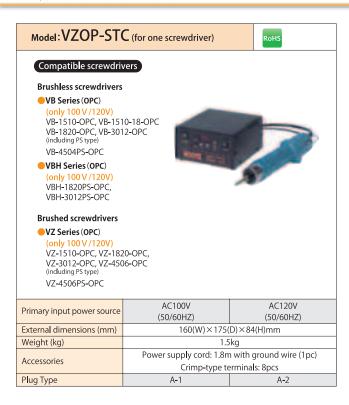
Components and Functions of Screw Counter STC3







AC Type/For VB, VBH, VZ Series



Connection to PLC (programmable controller)

You can use the screwdriver with OPC specifications by cutting the cable for OPC at the tip to expose the lead and connect it to the PLC.

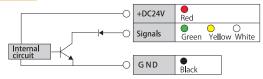
Note: The models connectable to the PLC are only AC type/VB, VBH, VZ screwdrivers (OPC).

Screwdrivers with OPC

- These screwdrivers have the function to send out signals of forward and reverse rotations and torque-up.
- The signals are separated by the photo coupler for safety.
- The output is open collector output (Max. 24V/20mA) and can be directly connected to the PLC, etc.



Internal circuit diagram



Guide for output wire colors

●Red: input of +DC24V

Black: input of GND

Green: signal output of forward rotationWhite: signal output of torque-increase

Yellow: signal output of reverse rotation

About PLC

For the time chart, please download the operation manuals of VB-OPC or VZ-OPC in PDF available on the HIOS website.

Plug Type

| Voltage | 100V | | 120V | 220-240V | | | |
|-----------|--------|----------|----------|----------|--------|---------|--------|
| | Type A | Type A-1 | Type A-2 | Type A-3 | Type C | Type BF | Type S |
| Plug Type | | | | | 100 | | |

To prevent screw tightening skipping! Separate screw counter

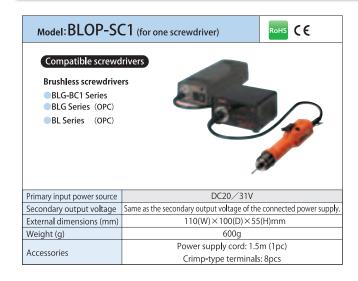
SC1 Series

The counter function can be added easily by connecting this to the existing HIOS power supply.

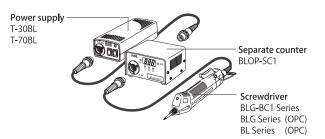
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$DC_{\, \text{Type}/}$

For BLG-BC1, BLG, BL Series



Configuration of components



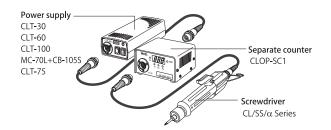
Connectable power supplies and screwdrivers

| Power supplies | Connectable screwdrivers (OPC) |
|------------------------------|-----------------------------------------------------|
| T-30BL (for one screwdriver) | BLG-4000BC1,BLG-4000-OPC, BL-2000-OPC, BL-3000-OPC |
| | BLG-4000BC1,BLG-5000BC1,BLG-4000-OPC, BLG-5000-OPC, |
| T-70BL (for one screwdriver) | BL-2000-OPC, BL-3000-OPC, BL-5000-OPC, BL-5020-OPC, |
| | BL-7000-OPC |

For CL, SS and α Series



Configuration of components

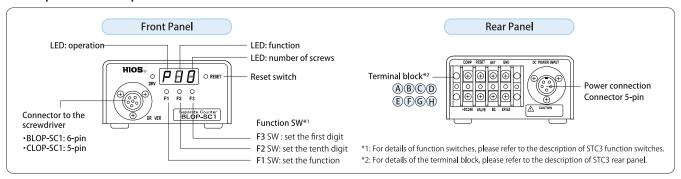


Connectable power supplies and screwdrivers

| Pov | ver supplies | Connectable screwdrivers | | |
|------------|-----------------------|-------------------------------------------------------------|--|--|
| CLT-30 (fd | or one screwdriver) | CL-2000, CL-3000, SS-2000, SS-3000 | | |
| CLT-60 (fd | or one screwdriver) | CL-2000, CL-3000, CL-4000, CL-6000, CL-6500, CL-7000 | | |
| CLT-100 / | for two screwdrivers) | SS-2000, SS-3000, SS-4000, SS-6500, SS-7000, | | |
| CLI-100 (| ioi two sciewanieis) | α-4500, α-5000, α-6500* | | |
| MC-70L | Up to 20 screwdrivers | CL-2000, CL-3000CL-4000, SS-2000SS-3000, SS-4000 | | |
| +CB-105S | Up to 10 screwdrivers | CL-6000, CL-6500, CL-7000, SS-6500, SS-7000, α-4500, α-5000 | | |
| (multiple) | Up to 5 screwdrivers | α-6500 | | |
| CLT-80 (fd | or one screwdriver) | CL-9000 | | |

^{*} α -6500 cannot be connected with CLT-100 (for two screwdrivers).

Components of Separate Counter SC1



Only 120g!

This palm-sized compact counter can be directly connected to a screwdriver.

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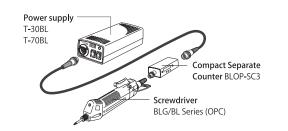
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For BLG, BL Series



Connection of components



Connectable power supplies and screwdrivers

| Power supplies | Screwdrivers (OPC) | | |
|------------------------------|------------------------------------------|--|--|
| T-30BL (for one screwdriver) | BLG-4000-OPC, BL-2000-OPC, BL-3000-OPC | | |
| | BLG-4000-OPC, BLG-5000-OPC, BL-2000-OPC, | | |
| T-70BL (for one screwdriver) | BL-3000-OPC, BL-5000-OPC, BL-5020-OPC, | | |
| | BL-7000-OPC | | |

Notes:

- Always use BLOP-SC3 by hanging it from the balancer.
- $\bullet \hbox{Do not use this device for horizontal screw tightening.} \\$

Components and Functions of Compact Separate Counter SC3

