

CT - 11

General description:

This is a counter for circular knitting machines which stop the machine at the appropriate number of turns. The value can be memorized as a pre-set value and then reloaded.

The display show rotation speed and the time to finish at current speed.

Power supply voltage is 24VAC, power consumption 5W, work with a magnetic sensor from ILE or with a generic proximity switch .

The circuitry for proximity switch is built-in into CT11.

Installation procedure:

Power supply (24Vac):

- The terminal screw labeled '0' goes to '0V' of machine transformer for services.
- The terminal screw labeled '24' goes to '24V' of machine transformer for services.
- The terminal screw labeled 'PE' (stand for Protection Earth) goes to machine Ground or shield with a short wire.

Output for machine stop:

- The terminal screw labeled 'C', 'NC', 'NA' have to be used for the stop of the machine. These are relays output capable of 3A 250V.

Working (option):

- The terminal screw labeled 'WORKING' goes to 24Vac active only when the loom is turning, usually where the oil pump is connected.
- Please note that the signal 'working' is used only to disable the counter reload when the machine is working.

Magnetic sensor ILE type:

- The terminal screw labeled 'MAG. SWITCH' goes to one terminal of magnetic sensor.
- The other terminal of magnetic sensor goes to machine Ground or shield, same as PE.
- The terminal screw labeled 'PROXIMITY' is left unconnected .

Proximity switch:

- The terminal screw labeled 'PROXIMITY' goes to one terminal of proximity switch.
- The other terminal of proximity switch goes to '24V' of machine transformer for services.
- The terminal screw labeled 'MAG. SWITCH' is left unconnected .

Caution:

- Use only one sensor for machine turns, the proximity switch or the magnetic sensor ILE type.

Modes of operation:

Preselezione del numero di giri della pezza:

- Stop the machine turning (this is required only if the signal 'activity' is connected).
- Pressing the key 'SET' let the display show the actual pre-set number .
- To change the pre-set number ,while keeping the key 'SET' pressed, push the key next to the digit to change.
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Reload of the counter with pre-set number:

- Stop the machine turning (this is required only if the signal 'activity' is connected).
- Press 'RESET' key.
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Check of the machine turning speed:

- Pressing the key 'RPM' let the display show the actual speed in rotation per minute. The digit to the right is tens of turn.
- Keeping the key RPM pressed for at least 3 seconds let the display show the time to reach zero (end of piece) at actual speed, in hours and minutes.

The CT11 can be connected fo 'Working' signal for the purpose to disable the modify of count or pres-set number while the machine is turning. If the 'Working' signal is not connected then the counter and pre-set number can be changed anytime.



