

Smart Mold Counter

WIZCoN

User Manual

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1.General

The counter is used to count the number of cycles of injection molds, press tools, die castings or other devices performing cyclic operations.

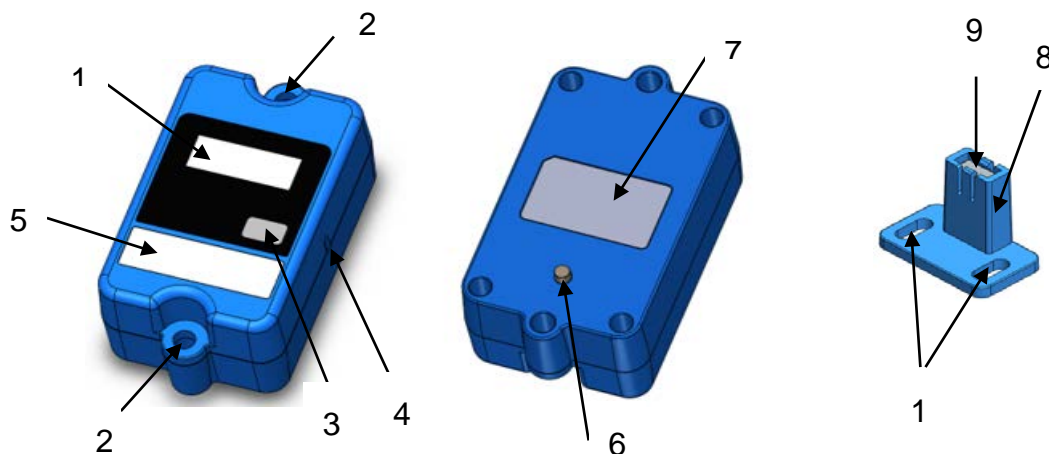
The counter is inactive and automatically activates when the counter is installed on the mold surface. Using the counter's mode switch to set up a repeater to be linked, it is possible to communicate with the linked repeater.

The counter is basically active, or mounted on the mold surface, and can only be counted while the Active Switch is pressed.

In the activated state of the counter, there is a magnetic sensor that detects the magnet on the right side of the counter, and when the magnet is detected, the shot count increases and the value is displayed on the LCD.

The counter will send the increased shot count value to the repeater for each set transmission cycle.

If the counter is not detected for a certain period of time while the counter is in the active state, the counter will transmit the current shot count value to the repeater to improve battery efficiency and enter the sleep mode.



Description of elements

1. LCD Display
2. Mounting holes
3. Mode switch button
4. Magnetic sensor's location on the PCB
5. QR code & Serial Number
6. Active switch
7. FCC Label
8. Magnet housing
9. Magnet
10. Mounting holes





Technical parameters

1. Core: ARM Cortex M3 32bit
2. Communication: IEEE 802.15.4 USN Sub-GHz
3. 7-digit 7-Segment Display
4. 6times/sec Shot cycle
5. 3.6Volt Li-SoCl₂(2/3AA 1650mA×2pcs)
6. 5years battery life(8times/day)
7. Working temperature -20~+85°C(-4°F~185°F)
8. Dimensions 36.5 × 58 × 27 mm
9. Mounting screws;
 - M4 × 25mm Hex wrench bolt(Counter)
 - M4 × 10mm Hex wrench bolt(Magnet)


General information

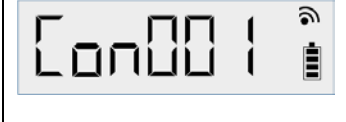

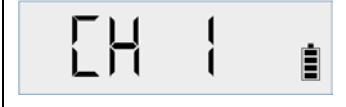
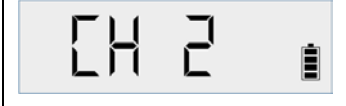
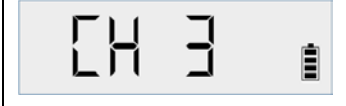
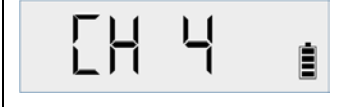
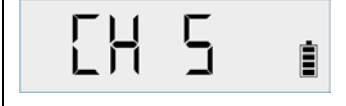
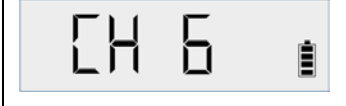
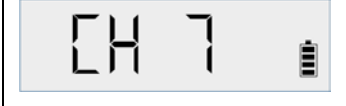


The counter is inactive upon delivery. After installing the WIZCoN on the mold's surface, the counter becomes automatically active. If the mode switch of the counter is pressed, and then synchronize with the channel which is the setting on the repeater only then communication is possible.

2. Connecting with the repeater

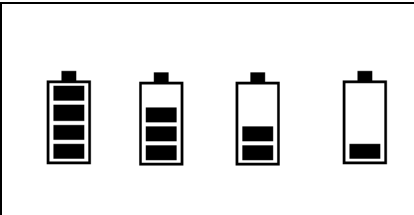
- ① Check the channel of the repeater for interworking between the counter
- ② Click add-button on the counter management tab in the repeater program.
- ③ Press the mode switch button for 2~3seconds to enter the channel setting Mode.
- ④ Press the mode switch button shortly to move "LEAVE".
- ⑤ Double-click the mode switch to select "LEAVE". As a result, the antenna icon disappears.
- ⑥ Move to the channel of the repeater to be linked by pressing the mode switch button shortly.  ~ 
- ⑦ Press the allocated channel by pressing the mode switch button twice times
- ⑧ After the antenna icon appears on then the channel setting mode is terminated. Press the button long. 

3. LCD display messages

	<p>The default count display screen. When the counter is detected the magnet in an active state, the count value is increased and displayed on the screen.</p>
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	<p>If user press the mode switch button for more than 2 seconds, the counter's ID will be displayed and can enter the setting menu.</p>
	<p>Enter the setting menu, press the mode switch button short to move to "LEAVE" menu, and set when the mode switch button is pressed twice. It is an item that must be selected from the counter to enable communication with the repeater after channel synchronizing. * If the counter is interlocking with the repeater, the antenna icon disappears when "LEAVE" is set.</p>
	<p>Enter the setting menu and press the mode switch button short to find and move the channel you want to connect. After moving to the channel you want to set, you press the mode switch button twice and you are set to that channel.</p>
	
	<p>* To set up an interlocking channel, execute the counter addition in the program and set up the counter "LEAVE" after moving the interlocking channel.</p>
	
	
	
	
	
	

* To terminate the setting menu, hold the mode switch button for more than 2 seconds, or leave it for 10 seconds to switch to the default screen.

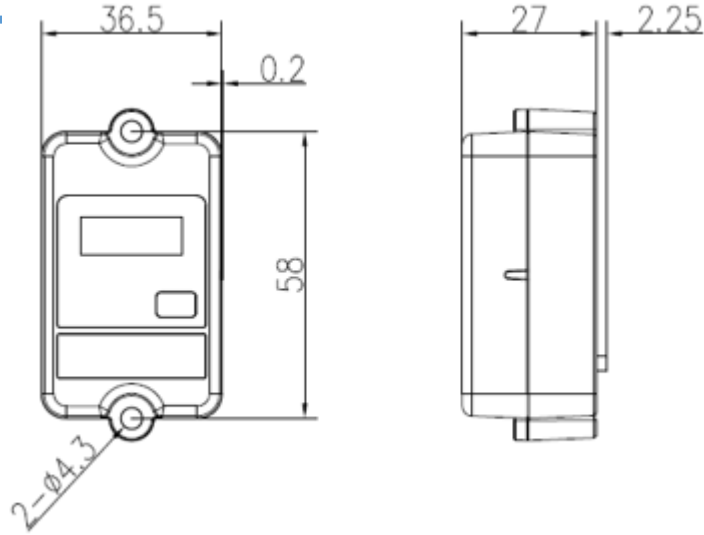
	<p>Battery level display; 4 batteries (100%), 3 batteries (70%), 2 batteries (40%), and 1 battery (10%). * One battery (10%) level, Counter battery replacement required by trained person.</p>
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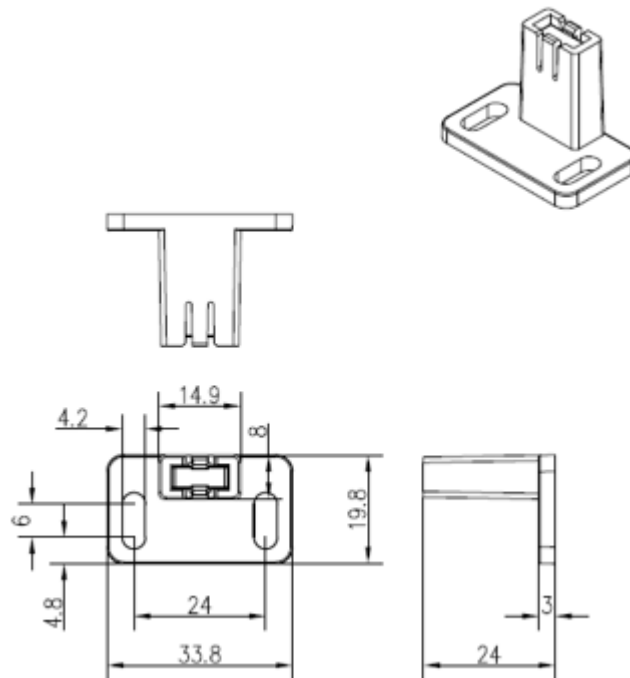
Antenna icon is displayed when the counter is communicating with repeater through channel settings.

4. Dimensions

Counter dimensions



Magnet dimensions



5. Federal Communications Commission(FCC) Interference Statement

FCC Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

There is one statement for this product:

The device must carry a label stating "FCC ID: XXXXXXXXXX".

Note: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

The devices must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product.

Disclaimers

The manufacturer, importer, and distributor shall not be liable for damages including accidental and personal injury due to the improper use or operation of this product. The information in this user manual was written based on current product specifications. The manufacturer, Wizconnected Inc., is adding new complementary features and will continue to apply new technologies in the future. Product specifications may be changed without prior notice.

Wizconnected Inc., is not responsible for data loss due to product use.

Exposure statement

The transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and any part of your body.