FUWEI

Guangzhou FUWEI Electronic Technology Co.,Ltd

FGU07-200S

VERSATILE LABEL SENSOR

Specification

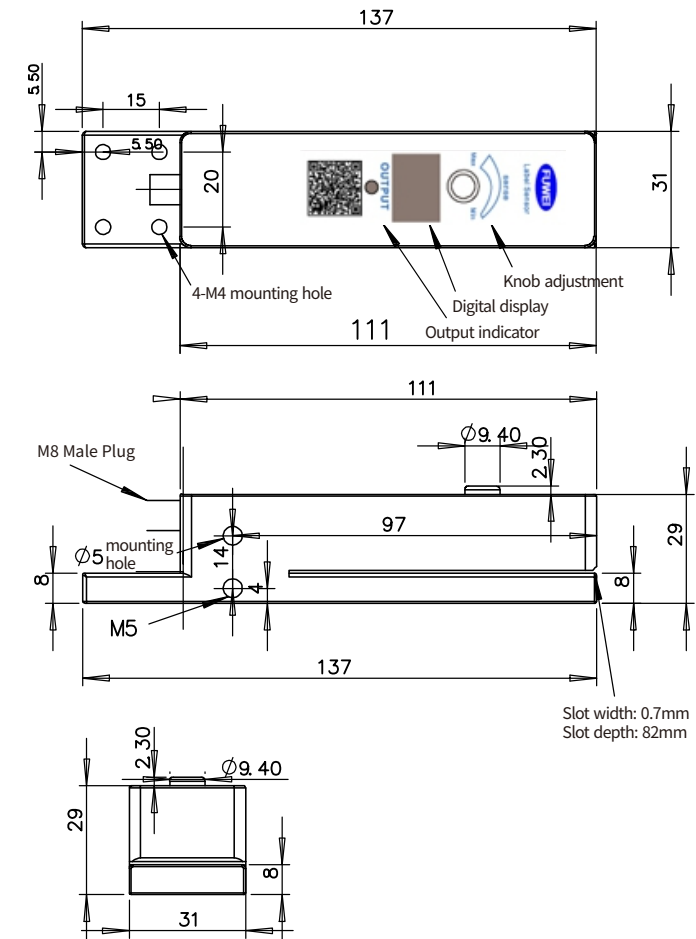| Model	FGU07-200S
Features	Applicable to bronzing, silvering, PU, PP, composite, transparent label and paper label
Detection principle	Differential capacitance detection
Slot width	0.8mm
Slot depth	82mm
Switch frequency	5KHZ
Response time	0.1ms
Supply voltage	10-30VDC
Consumption current	<25mA
Output signal	NPN+PNP
Output current	100mA
Sensitivity setting	Knob adjustment
Protection	Reverse polarity protection, output short circuit protection
Output type	NPN, PNP dual output
Power supply	Input voltage DC 10V-30V, Maximum power 0.5W
Display	Two-digit digital tube display
Operating temperature	-20~+60℃, no freezing
Protection level	IP66

Dimensions

4-M4 mounting hole
Knob adjustment
Digital display
Output indicator

137 5.50 15 5.50 20 31 111

M8 Male Plug
∅9.40 2.30
∅5 mounting hole
14 97 29
8 4 8
M5
111 137

Slot width: 0.7mm
Slot depth: 82mm

2.30 ∅9.40
29 8
31

Safety Warning

- Do not use in an environment with flammable, explosive or corrosive gases.
- Do not use in an environment with oil or chemicals.
- Do not use in an environment with high humidity.
- Do not use in direct sunlight.
- Do not use under other environmental conditions that exceed the rated value.
- Do not disassemble, repair or modify the product without permission.
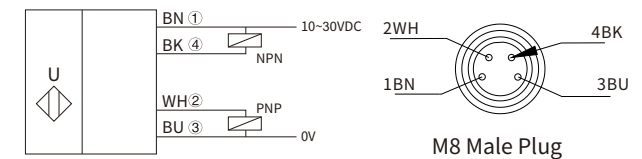
Applicable testing occasions

To ensure your smooth use of this product:

1. This sensor is suitable for paper ordinary labels, translucent, fully transparent labels, PVC composite labels or metal labels.

2. In use, the detected label must be in the marked area of the sensor detection slot.

3. In use, the detected label paper must be taut, to ensure detection accuracy.

4. In use, the bottom paper of the detected label, as close as possible to the back of the bottom plate.

End-of-life Disposal

When the product is disposed of, please dispose of it as industrial waste.

Wiring Diagram

BN ① 10~30VDC
BK ④ NPN
WH ② PNP
BU ③ 0V

2WH 4BK
1BN 3BU

M8 Male Plug

Sensitivity setting steps

1. Insert the label paper into the detection slot.
2. Move the middle part of the label to the sensor's [SENSOR] detection area, adjust the sensitivity adjustment potentiometer, when the digital display 9 is the best, 8 is the next best.
3. Verify the suitability of the sensitivity of the backing paper: move the gap between the backing paper or label to the [SENSOR] sensing area, and the digital display will be 2 or less.
4. The digital display can detect stably when the difference between the two states of the label is more than 5.

Usage of magnification

(If the label in the presence or absence of two states digital display difference is less than 5, you need to adjust the magnification.) (Only for labeling machine manufacturers to set parameters)

1. The common magnification is (1), can detect most of the labels, in the working state, the display is (1-9) digital.
2. When the label is too thin, the detected digital display difference is less than 5, you need to adjust the magnification.
3. When the magnification is selected, the display will be (.1 - .9) in the working state.

Usage of magnification

(Only for labeling machine manufacturers to set parameters)

1. Press and hold the (SET) key for 3 seconds, the flash will jump (S.1), enter the magnification setting state.
2. (S.1) for the magnification of 1
3. Short press (SET), the magnification can be modified, for the cycle of adding, after setting the magnification, after 10 seconds, automatically return to the working state. When increasing the magnification, it is appropriate to increase the magnification in a gradient, the maximum magnification can be 9 times.

Normally open/normally closed setting

(Only for labeling machine manufacturers to set parameters)

1. Long press (SET) key for 10 seconds, jump flash (P.O), enter normally open/normally closed output setting state.
2. (P.O) for normally open output, (P.1) for normally closed output
3. short press (SET), the output mode can be modified, after setting, it will automatically return to the working state after 10 seconds.