F&C® F&C Sensing Technology (Hunan) Co., Ltd

Manual Of FC-4100 Capacitive Label Sensor

Thanks for you choose products of us , before using the product please read the manual carefully then make sure you using properly.

Warning

This product must not be used as a safety device to protect human body.

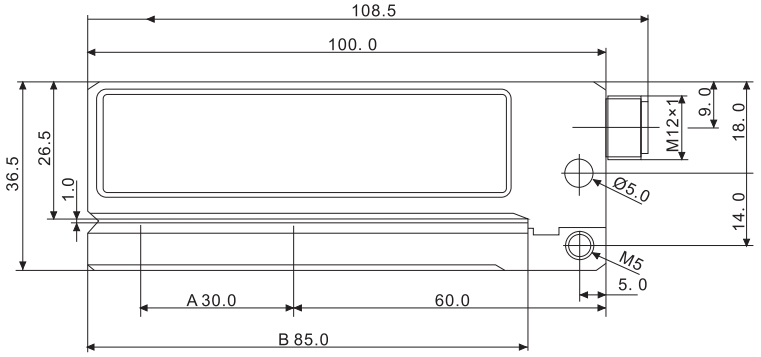
FEATURES

- Capacitive label sensor can sensing transparent or non-transparent label easily;
- NPN or PNP output for choice, just via different connecting;
- Metal housing and smooth edge of solt, can drag label easier.

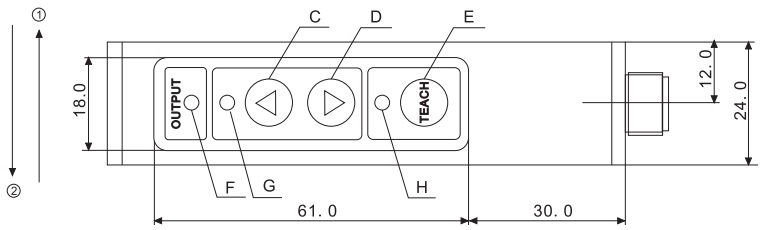
Slot width:	0.7mm
Slot depth:	85mm
Frequency:	5KHZ
Response time:	0.1ms
Working voltage:	10-30V
Consuming currents:	≤25mA
Output:	NPN or PNP selectable
Output currents:	100mA
Sensitivity:	smart adjustment
Protection:	reverse/circuit protection
Red LED H:	balance indicator
Red LED D:	sensitivity indicator
Green LED F:	Signal indicator
Housing:	alumina
Connection:	M12 connector, 4pins
Working temperature:	0~60°C

1) Max label speed 10m/s, min gap of labels is 2mm

DIMENSIONS

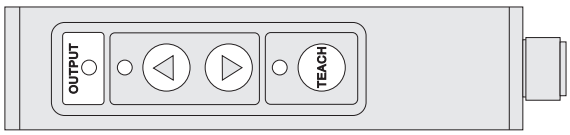


A: Sensing field
C: Sensitivity increase
B: Depth of slot
D: Sensitivity decrease



E: TEACH adjustment
F: Output indicator
G: Sensitivity indicator
①+②: Direction of label
H: Balance indicator

SETTING



Auto setting

STEP 1

TEACH Keeping press for 3sec.to reset the sensor.

LED of TEACH flashed, and then became constant lighting.

STEP 2

◁ ▷ Press both keys for 6sec. to enter setting mode.

LED of sensitivity flashed, and then enter auto setting mode, put the labels into slot and draft it move forward and go back (At least 5 gaps) Until the LED became constant lighting, setting done.

PS. During the setting, labels cann't be removed from slot of sensor.

Manual setting

SENSITIVITY

◁ and ▷ Manual sensitivity micro adjustment.

Press one of both for 2sec.LED of sensitivity flashed to increase or decrease.

1) If not showed flashed, means already with Max. value.

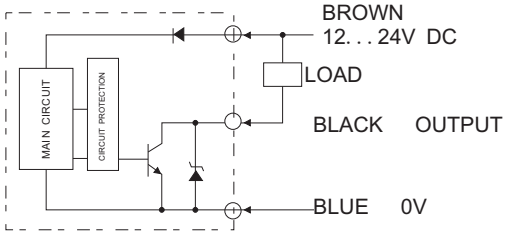
NO/NC

TEACH Press last more than 6sec.to switch Normally open or Normally closed.

1) When LED flash showed release the key.
2) Before setting, need to remove labels of slot first.

WIRING DIAGRAM

NPN



PNP