

Photoelectric Label Sensor

PFT-100

- Thanks for selecting products of ECOTTER.
- Please read the instruction carefully before using them.

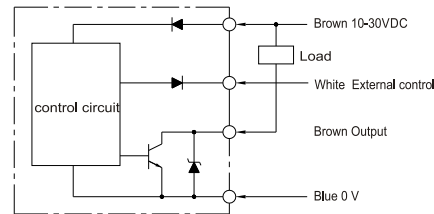
Technical parameters

Model/Type	Wire	PFT-100N	PFT-100P
		M8	PFT-100N-M8
Output		NPN	
Detection of objects		opaque label	
Supply voltage		10-30VDC	
The label width		2mm	
The label gap		2mm	
Control the output		Transistor collector open circuit output	
Sensitivity control		Key adjustment & remote control	
Max current output		100mA	
Current consumption		25mA	
Response time		50us	
Switching frequency		10KHz	
Reverse power protection		Equipment	
Short circuit protection		Equipment	
light on/dark on		Switch on and off	
Ambient temp/humidity		-20 ° C ~ 60 ° C	
IP protection level		IP 66	
Size		80×12×24mm	
Shell material		Aluminium alloy	

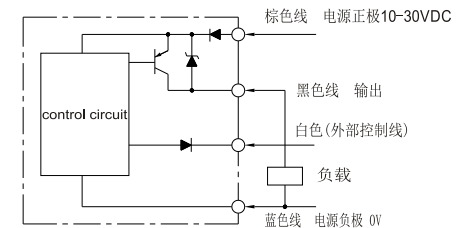
Can be customized according to customer requirements related products

Schematic diagram

NPN



PNP

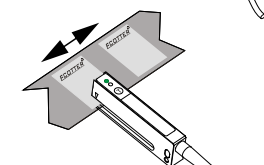
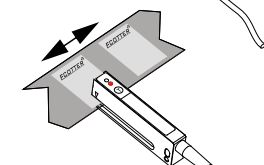
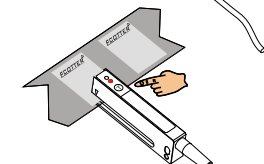
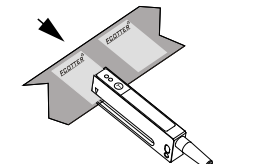


- 白色线接电源负极时，按键锁定；输出短路或过载时将关闭输出晶体管

Operation chart

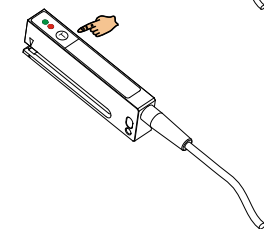
Teaching process

1. Put the label into the sensor's detection slot.
2. Press the teaching button for about 4 seconds, until the red status indicator flashes once. Release the button and the product enters the teaching state.
3. The red status indicator flashes at a frequency of 8HZ. At this time, the label is moved back and forth, and relevant data are automatically recorded by the product. The learning process lasts about 10 seconds.
4. At the end of the study, the red status indicator will stop flashing, and the green indicator will turn on or off when the label moves.
5. Remote setting function: apply 0.5-4.5sec low-level pulse signal to the external control line (white line), and the product will enter the sensitivity intelligent setting state. The product keys can be locked by continuously applying low-level signals.



Product output dark light setting

Press the instruction button to hold for about 8 seconds, and the product output will switch from dark on to light on or from light on to dark on. After the switch is completed, the green output indicator light will switch on and off.



ECOTTER 光电标签传感器

Automatic Teaching

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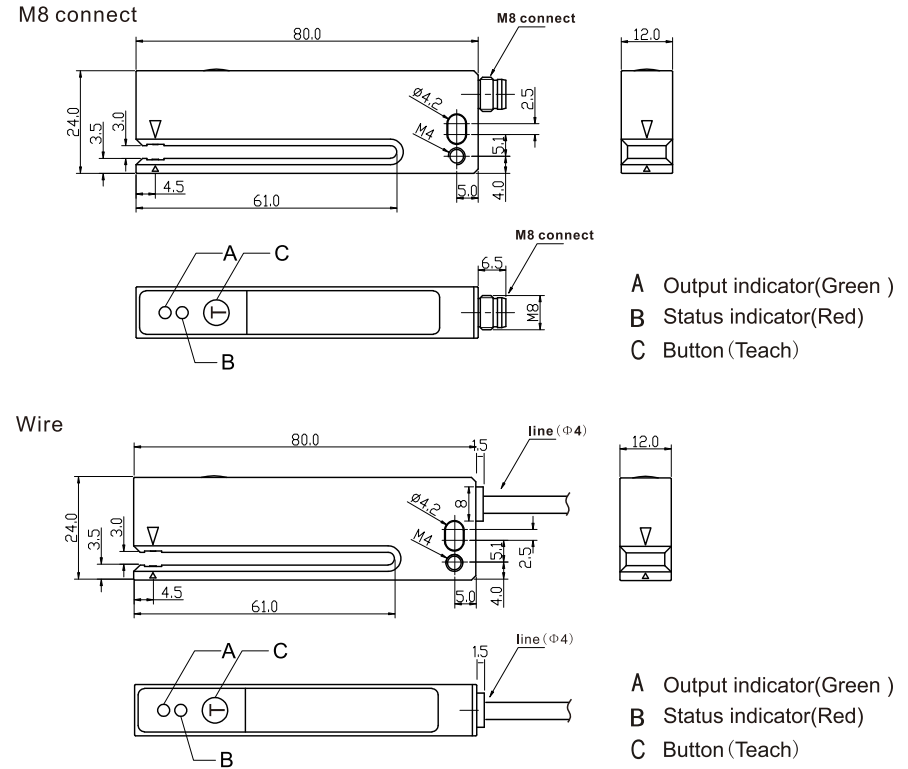
Description of products

The thin PFT-100 slot sensor is designed to meet the requirements of the labelling process. The sensor can be mounted directly on the edge of the label stripper. Since the sensor can learn the switch threshold by itself when the label bar moves, the difficulty of detecting label gap is eliminated. This advanced working concept enables the PFT-100 to be easily adjusted for rapid, simple and reliable detection of different labels.

The PFT-100 sensor also has the characteristics of rapid response, so the repetition accuracy is very good, the specific characteristics are as follows

- A new generation of economical label professional slot sensor, with a good cost performance
- Thin design, can be flexibly installed in the vicinity of the label stripping machine, to ensure higher process accuracy
- Compact shell, saving installation space, easy adjustment, easy and fast startup
- Fast response time up to 50us ensures accurate detection even at high paper speed
- Anti-polarity protection, output short circuit protection, interference suppression
- It has the function of self-learning with external keys
- Switching frequency up to 10khz
- PNP or NPN output
- Switch on and off

Dimension



Attention

- Make sure to wire the sensor with the power off.
- Please confirm that the power supply voltage is within the rated range.
- If the power supply is supplied by a commercial switching regulator, ensure that the power frame ground terminal (F.G) is grounded.
- If use a noise-generating device switching regulator to switch the engine or the like near the sensor, be sure to ground the device ground terminal (F.G.).
- Do not use the sensor for a short time (0.5s) after the power is turned on.
- The sensor is not equipped with short circuit protection. Do not connect the capacitor or capacity load directly.
- Do not run the line together with the high voltage or power line or in the same conduit, which may cause malfunction due to induction.
- Cables up to 0.3mm can be extended to 100m.
- Avoid exposure to dust, dirt and steam.
- Do not touch the sensor directly with water, oil, grease or organic solvents such as thinner.

Techcore Technology Limited