

Specification for non-contact level sensor  
(Intelligent external paste testing liquid level series products)

PRO RANGE-Y29A -V model number  
catalogue

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## 1. Product characteristics

1. The PRO RANGE-Y29A series is a non-contact level sensor that automatically calibrates the levelsensitivity in the form of buttons.
2. Can support high and low level output, NPN (selection and manufacturer instructions).
3. The detection liquid level is accurate and stable, and the cold, hot and boiling liquid can be detected.
4. Pure electronic circuit structure, non-mechanical working mode, stable performance, long continuous service life.
5. High stability, high sensitivity, strong anti-interference ability, not by external electromagnetic interference, for power frequency interference and common mode interference has done special treatment.
6. The power supply is equipped with reverse connection protection, short circuit protection, overcurrent protection and overvoltage protection; compatible with all 12-24V power adapters on the market.
7. used in medical and food industries, with strong induction ability, can penetrate and detect the liquid level of various non-metallic containers, such as plastic, glass, ceramic and other containers, the induction distance (container wall thickness) can reach 10mm; liquid, powder and particulate matter can be detected.
8. Open collector output mode, wide voltage range (12-24V), suitable for connecting various circuits and product applications.

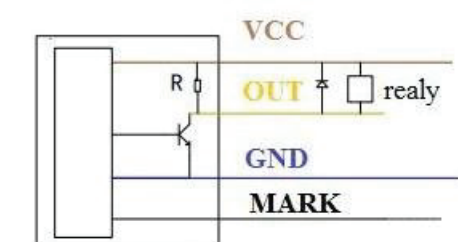
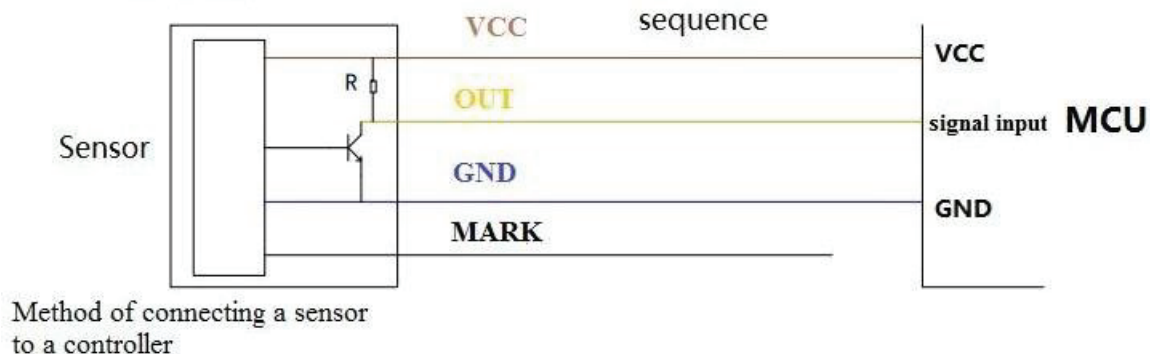
## 2. Product technical parameters

project name	parameter
Product specifications and models	PRO RANGE-Y29A -V
DC input voltage	DC 12V-24V
Output method	High and low level
Power ripple requirements	$\leq 10\%V$
Power consumption	$\leq 10mA$
Power delay	$\leq 500mS$
response time	$\leq 100mS$
operating ambient temperature	-25~85°C
humidity	30%~80% (no condensation)

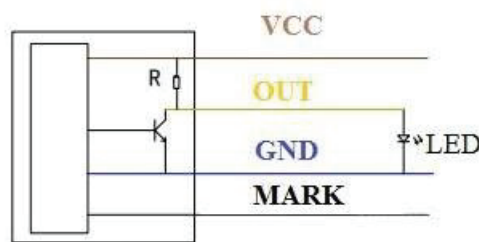
Induced thickness (Sensitivity)	10mm (container wall thickness)
The temperature drift	≤20% (-25℃~+60℃)
Test for the electrical conductivity of the liquid	≤50ms
Liquid level accuracy	±3mm
wire length	500MM (± 10MM) (batch customizable)
Line end definition	Brown VCC, yellow OUT signal output, blue GND, and black MARK sensitivity calibration line
material quality	PC-V0 fireproofing material
Waterproof performance	IP67
Safety standards certification	CE
Environmental certification	ROHS-2.0

### 3. The output principle and the recommended wiring method

Wiring method- -PRO RANGE-Y29A-V



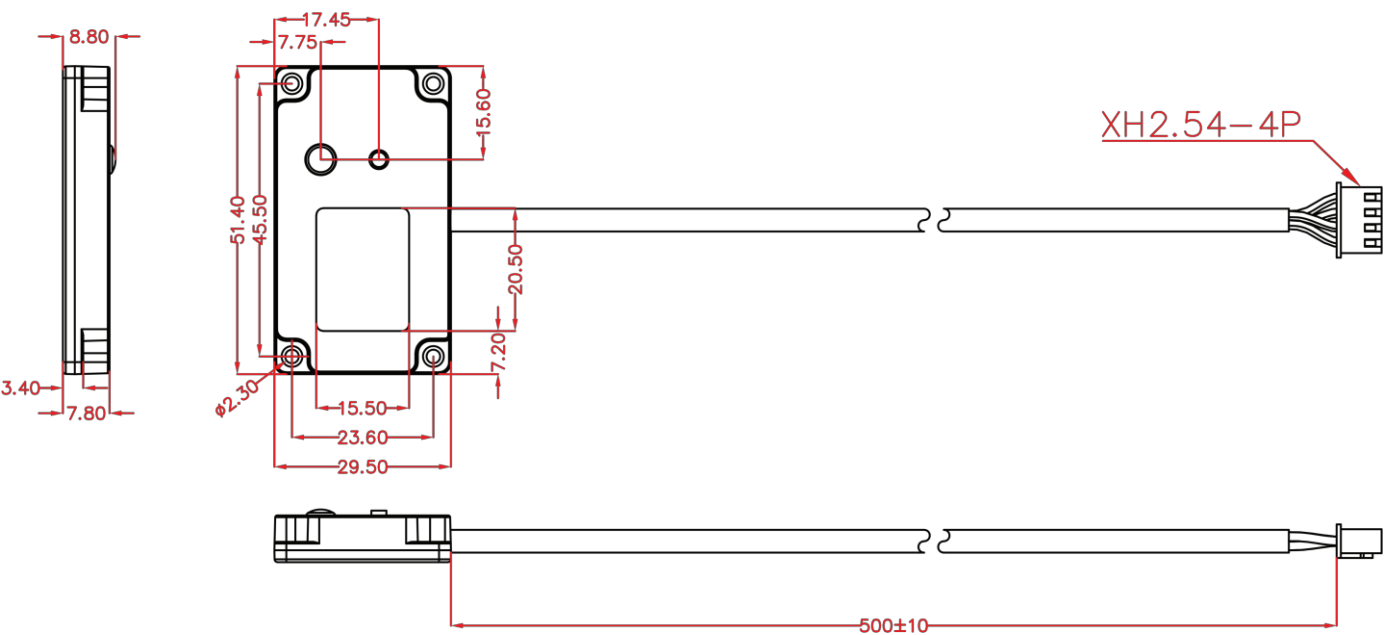
Method of connecting a sensor to a relay



Method of connecting sensor to LED

Note: the wiring cannot be charged, the sensor black MARK sensitivity calibration line, can only be suspended or connected to the key switch, cannot be directly connected to the positive or negative electrode of the power supply.

4. Product size



5. Manual version

version number	date of issue
V 11	2023-06-26