

## Ultrasonic sensor **UR30** double sheet detection series



### Features

- ♦ M30 installation threaded sleeve
- ♦ 3-way NPN or PNP output
- ♦ Reliable detection of no, individual or multiple sheets materials, up to 3mm aluminum plate thickness
- ♦ Implement learning functions for different materials through teach-in wire
- ♦ Temperature compensation



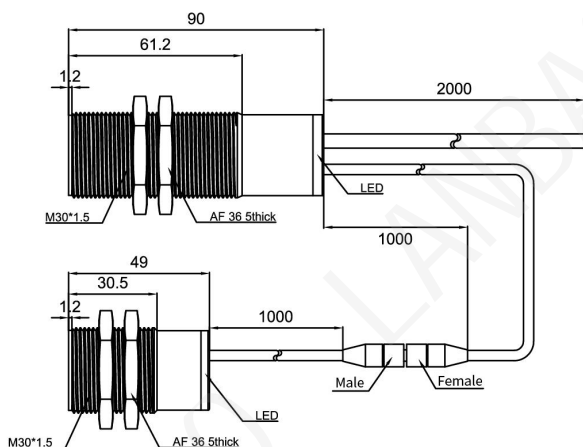
### Part number

NPN NO	UR30-DC40D3NO	PNP NO	UR30-DC40D3PO
NPN NC	UR30-DC40D3NC	PNP NC	UR30-DC40D3PC

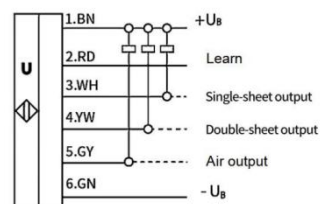
### Technical specifications

Sensing range	20-40mm	Circuit protection	Reverse protection, instantaneous over voltage protection, short circuit protection, overload protection
Detection	Non-contact type	Operating state	Single sheet: green light; Double sheet: red light; Air: yellow light
Calibration mode	With calibration mode	Learning state	Learning: The green light is blinking; Learning success: Alternating flashing red and yellow (thin material); Flashing red and green simultaneously (thick material); Flashing red and yellow simultaneously; The red light flashes; The yellow light flashes; Learning failure: Red light on (about 2s)
Impedance	>4kΩ	Ambient temperature	-25°C...70°C (253-343K)
Voltage drop	<2V	Storage temperature	-40°C...85°C (233-358K)
Response time	Single sheet: 17ms; air: 17ms; double sheet: 52ms	Material	Nickel plated copper, glass beads mixed with epoxy resin
Oscillator frequency	About 112KHz	Protection degree	IP67
Rated operational current	≤200mA	Connection	2m PVC cable
Supply voltage	18...30VDC		
No-load current	≤50mA		
Angle	±8°		
Teach-in wire	Learn and calibrate single sheet of different materials		
Output	3 switching modes, air, single sheet and multiple sheets		

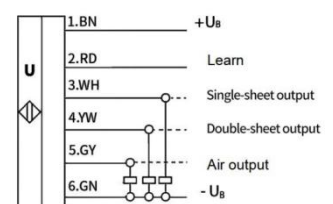
### Dimensions



### Wiring diagram



NPN output



PNP output