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

CE UKCA

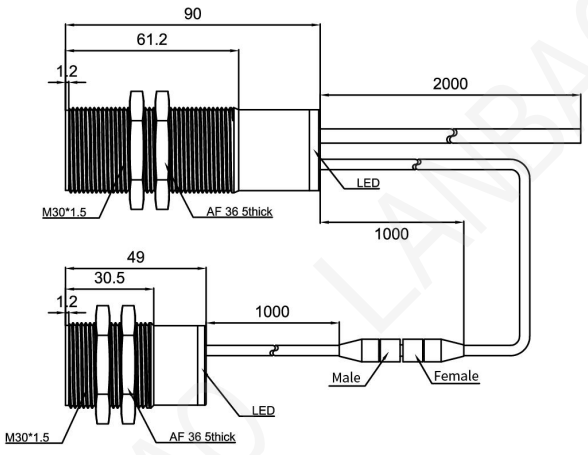
Part number

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

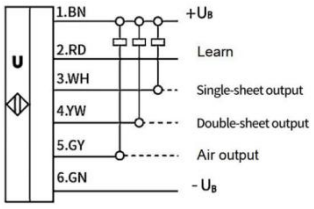
Technical specifications

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

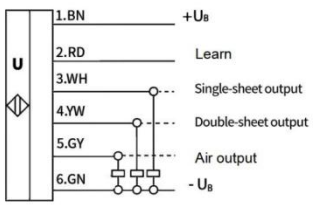
Dimensions



Wiring diagram



NPN output



PNP output