

Technical Parameters

Detection range	10...100mm
Adjustment range	20...100mm
Blind zone	0...10mm
Standard testing	20×20mm
Angle	±5°
Sensor frequency	Approx 400 kHz
Response delay	6ms (minimum 3ms)
Power-On delay	≤300ms
Operating voltage	9...24V DC, 10%Vpp
No-load current	≤30mA@24V
LED green light	Solid on: Power indicator
Blinking: Target detected in learning mode	
LED red light	Solid on: Switch status
Blinking: Target not detected in learning mode	

Input

Input Type	Button adjustment; Normally open/normally closed configuration
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Output

Output Type	Push-pull
Rated operating current	100mA, short-circuit protection/overload protection
Voltage drop	≤2V
Default settings	A1=100mm, NPN normally open
Repeat Accuracy	±1mm
Delay range	2.5mm (proximal)
Temperature drift	0.17%/K

Characteristics

Operating temperature	-10°C...55°C
Storage temperature	-30°C...70°C
Electromagnetic compatibility	GB/T17626.2-2006; GB/T17626.4-2008
Protection rating	IP64
Connection type	VC (Cable)
Housing material	Plastic, epoxy resin + glass beads
Weight	Approx 55g
Maximum Connector torque	0.2Nm

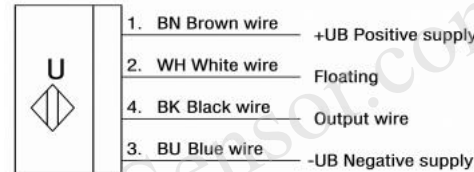
Ultrasonicsensors

- Digital output
- Micro-design
- You can study A1 points
- Few blind spots

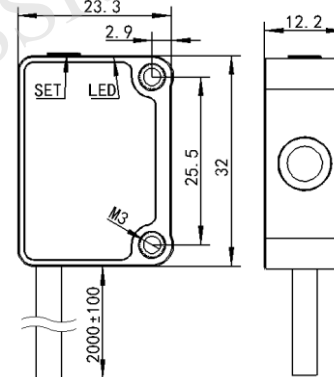
The following outputs can be configured

E0	NPN Normaly Open
E1	NPN Normaly Close
E2	NPN Normaly Open
E3	NPN Normaly Close

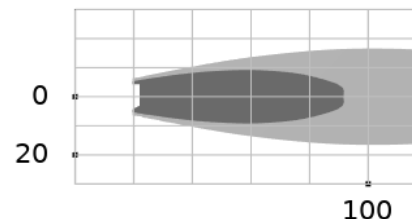
Electrical connection



Overall Dimensions



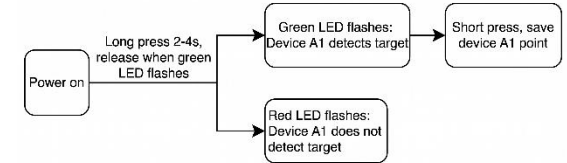
Response Characteristic Curve



Dark: 25mm diameter PVC pipe; Light : 20mm×20mm flat plate. Unit: mm
 Test conditions: Power supply 24V, 25° C, humidity 50%. There may be actual deviations, for reference only

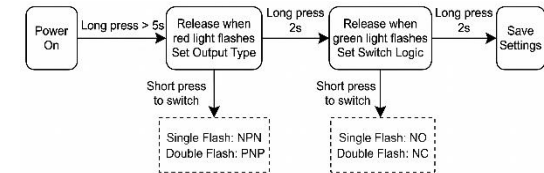
Set the detection range

Set the switch points distance the button



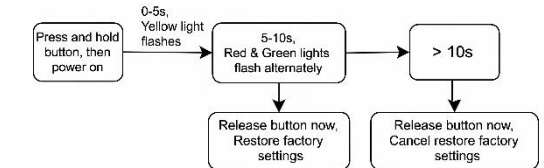
Output Configuration

Configure NPN/PNP output and normally open/normally closed output via buttons



Restore factory settings

Use the button to restore factory settings; after restoring factory settings, you need to power on again



Install

Since ultrasonic sensors have directionality, attention must be paid to the installation position. It is recommended to install perpendicular to the object being measured to achieve better relative accuracy

Matters need attention

- 1) Do not input voltages other than the normal operating voltage to avoid sensor burnout and failure.
- 2) Do not wire them incorrectly to avoid sensor burnout and failure.
- 3) Avoid pulling the sensor lead wire forcefully to prevent damaging the sensor's electrical connection.
- 4) Do not cover the sensor probe surface to avoid affecting the sensor's detection range.
- 5) When using sensors, strong mechanical vibrations should be avoided, and the working environment should not have strong electromagnetic interference or rapid air circulation.
- 6) Please do not disassemble the sensor yourself. If the sensor does not work properly, please contact after-sales service promptly for resolution. Our company is not responsible for any consequences caused by unauthorized disassembly.