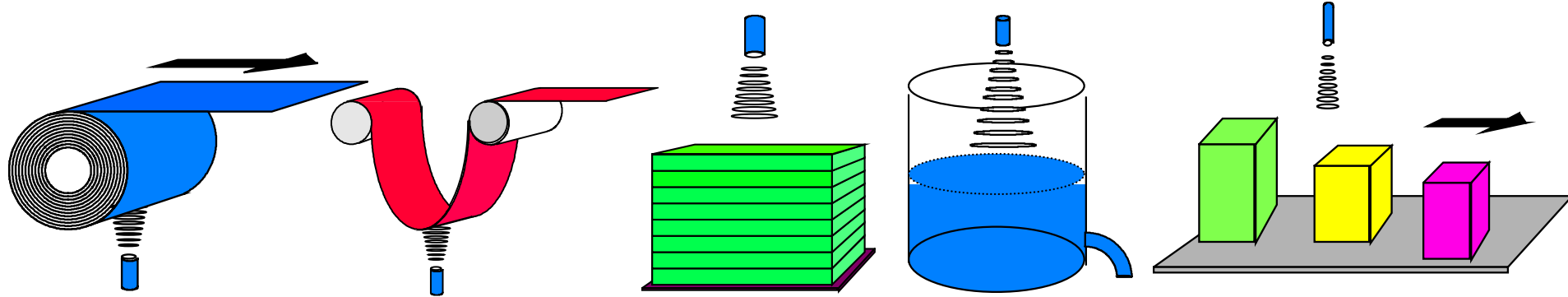


Ultrasonic Distance Sensors



Ultrasonic Distance Sensors

APPLICATIONS



Diameter Measurement

Slope Control

Height Measurement

Level Detection

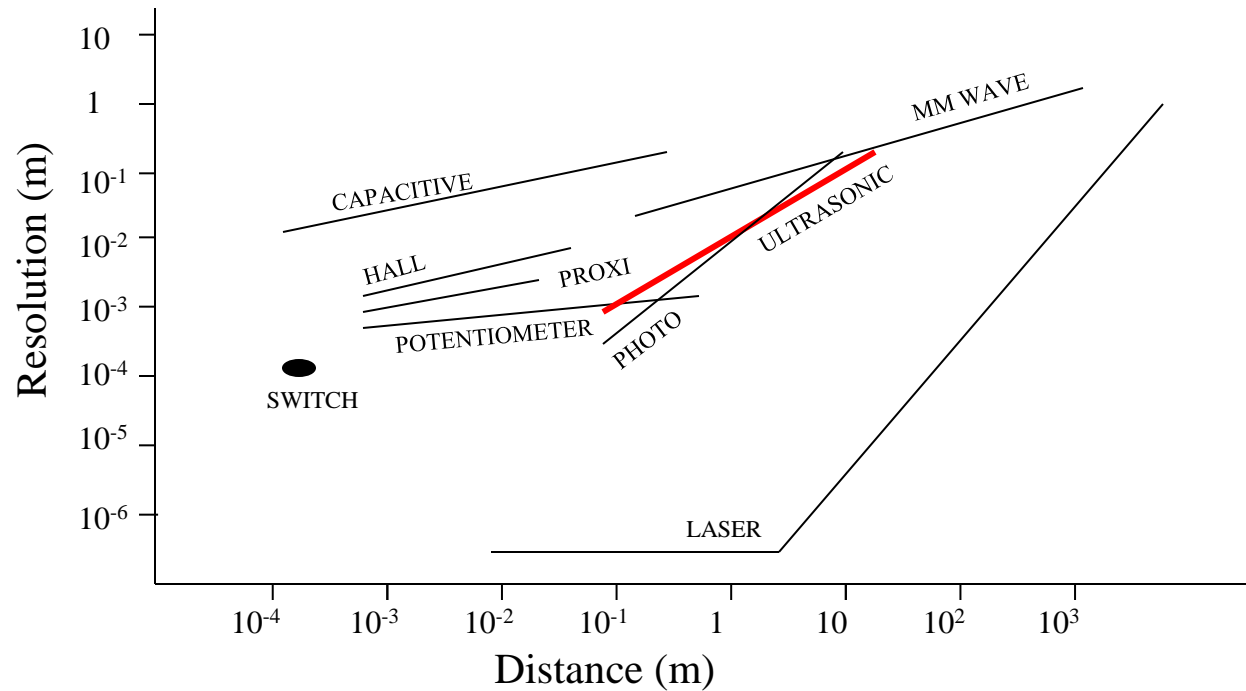
Parts Counting

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Ultrasonic Distance Sensors

Sensor Technologies

Distance Measurement



Ultrasonic Distance Sensors

For No Touch Measurement of

- DISTANCE
- PRESENCE
- LEVEL
- DIAMETER
- POSITION

Ultrasonic Distance Sensors

Independent of

- MATERIAL
- COLOUR
- LIGHT
- DUST
- MIST

Ultrasonic Distance Sensors

Detection Ranges

- 25 to 150 mm
- 500 to 6000 mm

with

- HIGH LINEARITY
- HIGH REPEATABILITY
- BACKGROUND SUPPRESSION

Ultrasonic Distance Sensors

with Distance Proportional Outputs

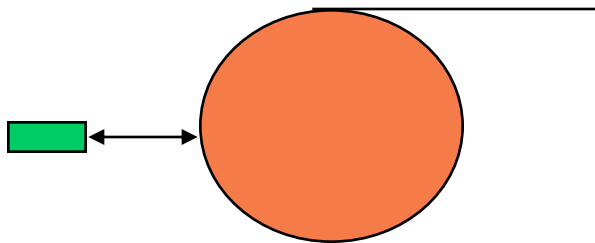
- Voltage 0 to 10 V
- Current 4 to 20 mA
- Digital RS232
- Digital RS 485
- Digital parallel
- Digital bit parallel, word serial

with Switching Outputs

- PNP
- NPN

Ultrasonic Distance Sensors

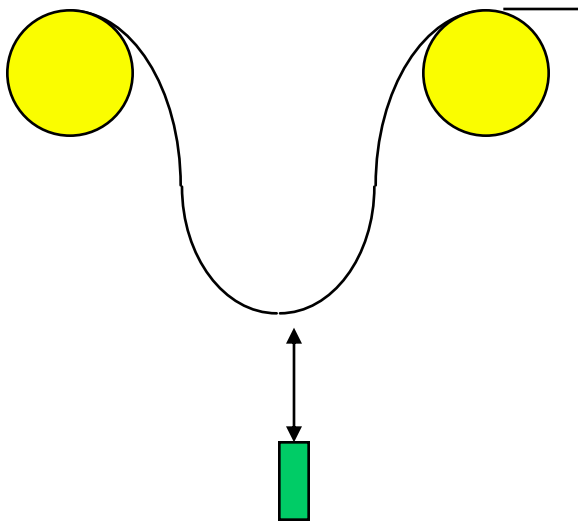
Winding and Unwinding



Paper
Metal Working
Aluminium
Textile
Plastic
Packaging Machines

Ultrasonic Distance Sensors

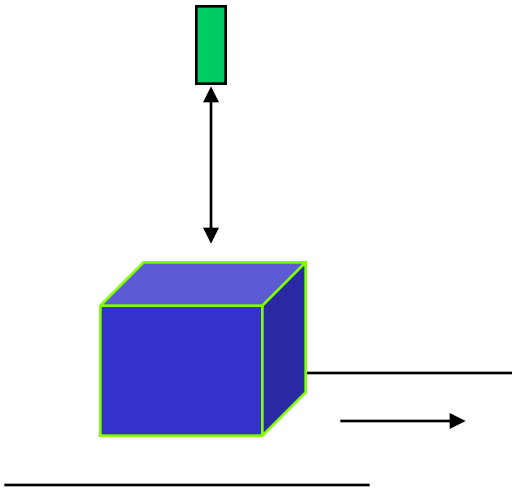
Slope Control



Paper
Metal Working
Aluminium
Textile
Plastics
Packaging Machines
Chemical Industry

Ultrasonic Distance Sensors

Height Measurement



Automotive Industry
Metal Working
Printing Machines
Package & Distribution
Food & Beverage
Bottle Sorting
Agriculture

Ultrasonic Distance Sensors

Positioning

Presses

APF

Robotic

Paper & Printing

Plastic

Metal Working

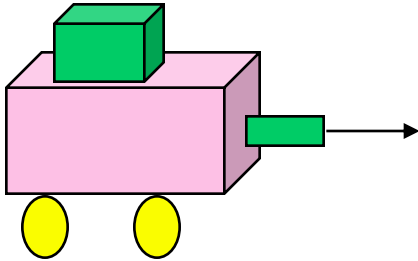
Car Washing Machines



Ultrasonic Distance Sensors

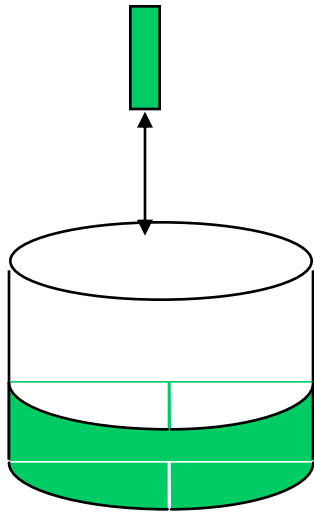
Collision Protection

Automotive Plant Floor
Metal Working



Ultrasonic Distance Sensors

Level Detection



Printing Machines
Food & Beverage
Water Treatment
Chemical Industry
Analytic
Power Plant

Ultrasonic Distance Sensors

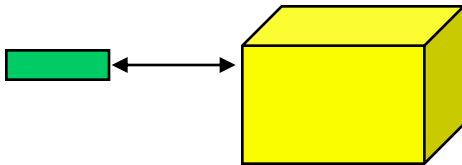
Presence Detection

Robots

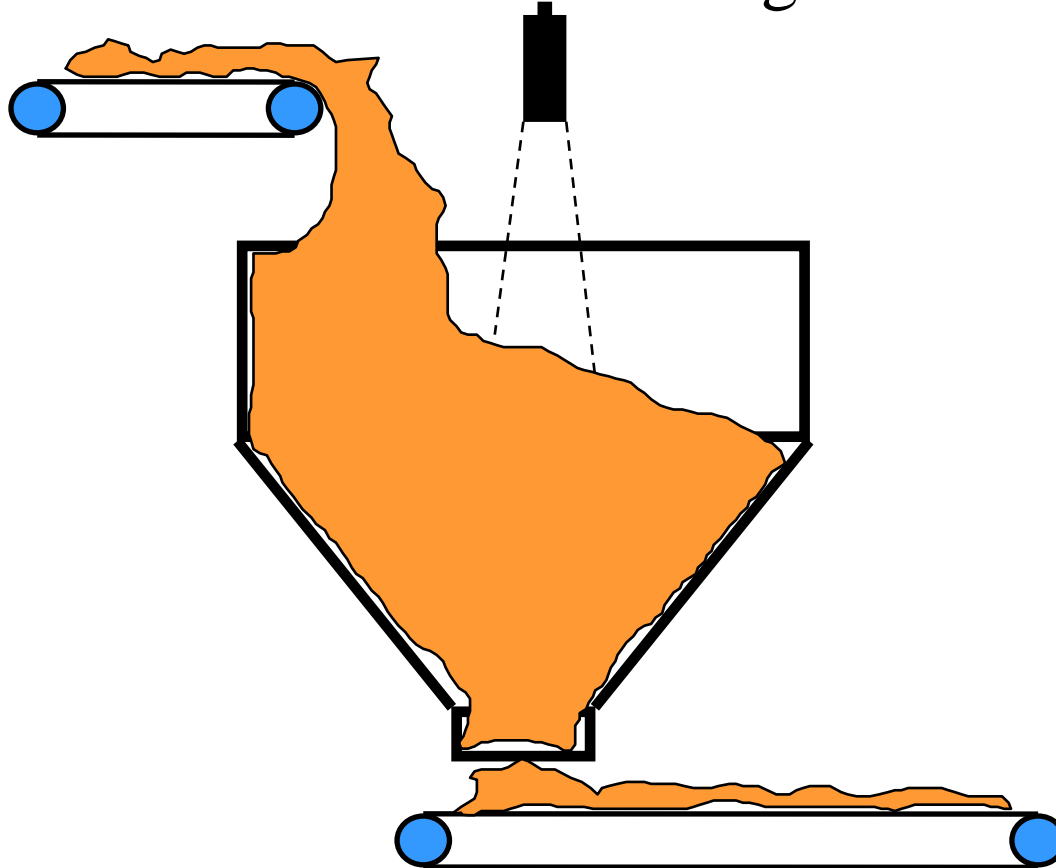
Food & Beverage

Glass

Automotive Plant Floor

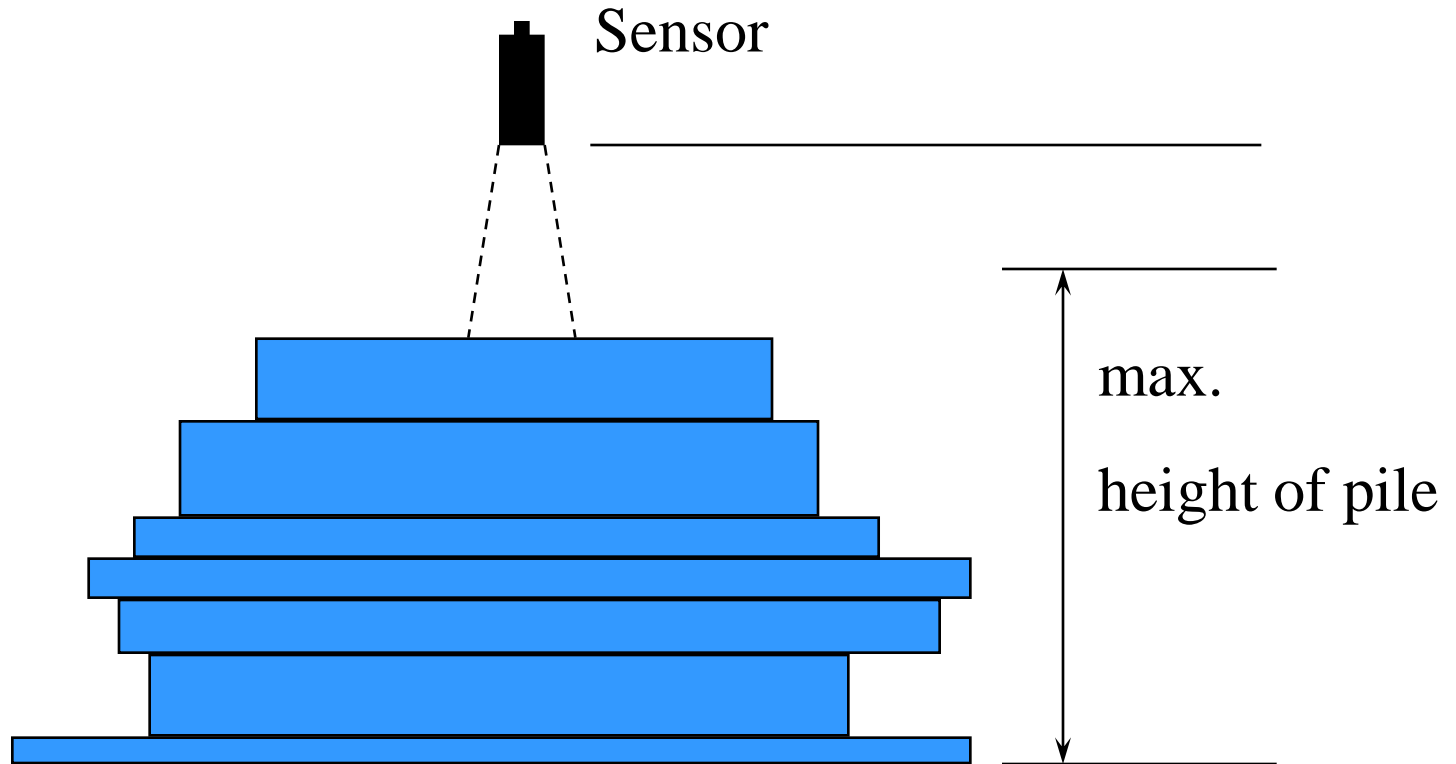


Ultrasonic Distance Sensors Detection of solid targets

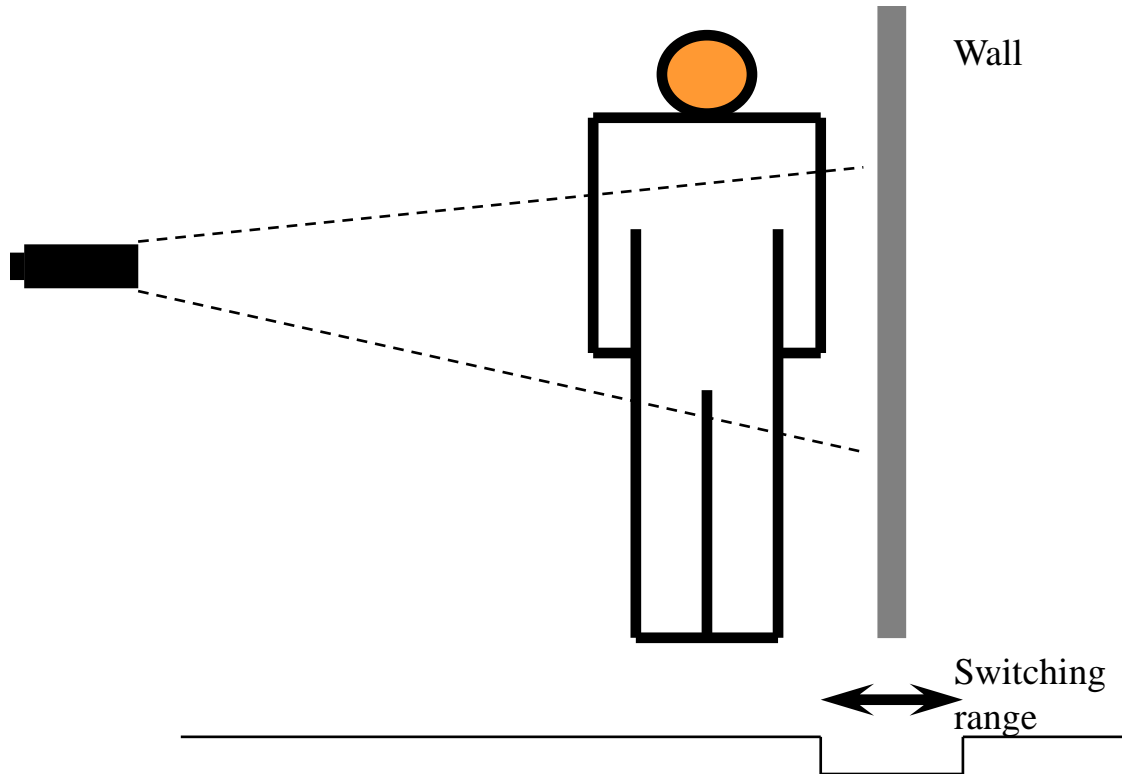


Ultrasonic Distance Sensors

Height measurement of piles

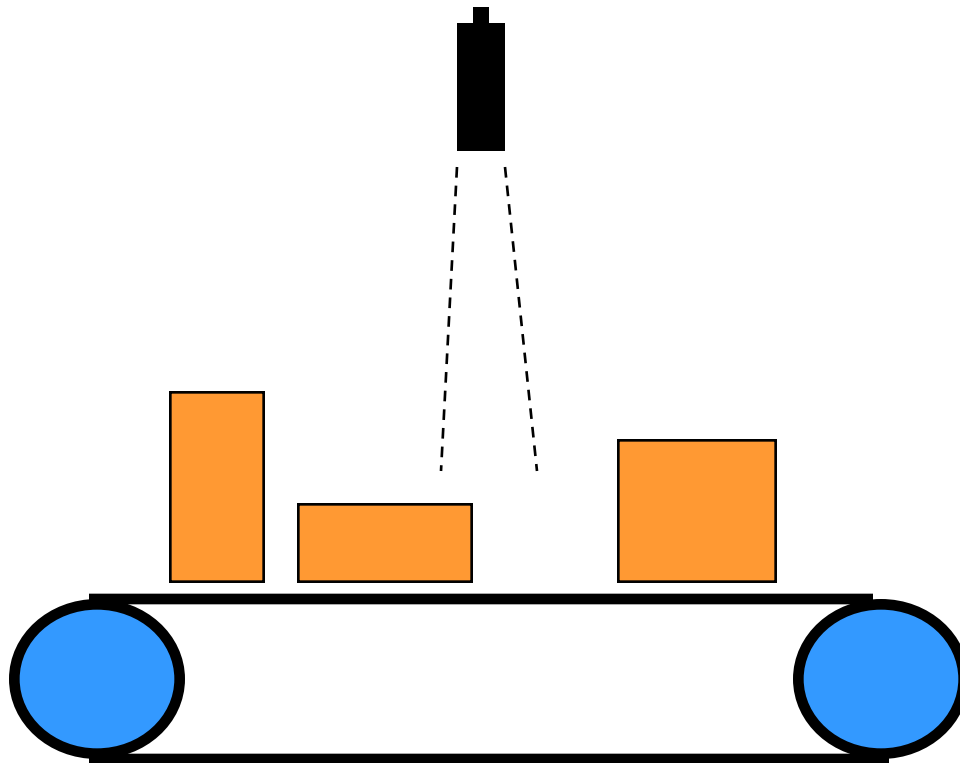


Ultrasonic Distance Sensors Detektion of persons



Ultrasonic Distance Sensors

Parcel sorting



Ultrasonic Distance Sensors

Quality check

