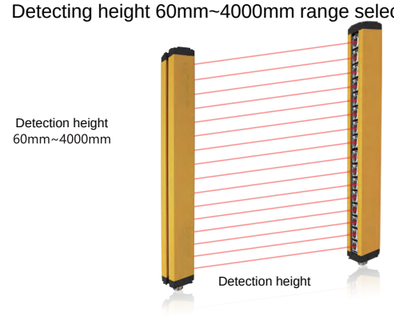
SAFETY SENSOR

- **Fully certified:**
  All series of safety light grating, safety relay, safety door lock, door magnetic switch products, in line with the national CNAS unified certification standards, obtained ISO9100 quality management system certification, with CE, PLe, Pld, REACH, EMC, ROHS, FCC and other certifications and test reports.
- **CPU self-inspect:**
  Grating using the CPU self-inspection, when the grating itself has a fault (such as : light source is not synchronized, light source intensity is not enough, the light projection drive circuit error, the master control circuit error, cable problems, as well as receiving drive circuit error, the master control circuit error, CPU error), the grating can ensure that not to send an error signal to the controlled equipment, to ensure the grating safety.
- **Dual independent OSSD output:**
  In terms of outputs, in pursuit of better safety, dual independent redundant outputs are adopted to provide a high level of safety against automatic failures, and can directly drive safety relays and safety PLCs.
- **External relay contact bonding protection (EDM) function:**
  When the output signals of the grating need to be connected to the customer's common relay/contactor equipment, in order to ensure the safety of the entire system, the safety grating is equipped with an EDM function to monitor the “ external relay contact status” , preventing the loss of safety protection function due to the failure of the external relay bonding.
- **Strong anti-interference ability:**
  Adopts infrared communication and special optical system, with strong anti-interference ability (good anti-interference ability to electromagnetic signal, strobe light, welding arc light and surrounding light source).
- **More responsive:**
  All the grating products of this series have a response time within 5ms; Overload and short circuit protection: When the safety grating output is overloaded or short -circuited, the grating will enter a protective status, and the grating safety system will be shut down; Self-detection: Self-detection is carried out within 2 seconds of the power supply being switched on to make sure that there are no faults in the grating itself.
- **Power-up delay function:**
  After 3 seconds of power-up, the grating can make the equipment work normally, which can give the operator and the equipment a buffer time to improve the safety of the equipment and personnel.
- **With shielding (floating/fixed blanking) function:**
  Customizable automatic shielding and set shielding functions greatly enhance the use of various on-site environments.
- **Optical synchronization technology:**
  Unique optical synchronization technology replaces the traditional data line synchronization, to avoid signal interference, while eliminating the need for longer data line connections.
- **Ultra-high detection accuracy:**
  Standard products provide hardware accuracy of 2mm, software cross algorithm accuracy of 1mm, to realize high-end demand of the safety grating such as small pitch, long distance, high accuracy, long size.

Safety light curtain sensor

Equipped with a wide range of detection heights

Detecting height 60mm~4000mm range selection

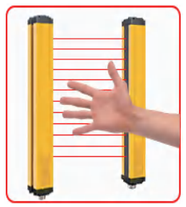


Multiple detection types

There are 3 types commonly used depending on the size of the smallest detected object.

For finger detection
Min. detected object φ15mm
(optical axis pitch of 10mm)

10mm



For palm detection
Min. detected object φ25mm
(optical axis pitch of 20mm)

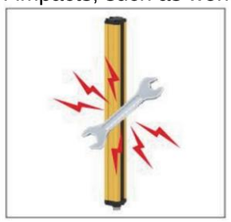
20mm

For arm detection
Min. detected object φ45mm
(optical axis pitch of 40mm)

40mm

Impact-resistant, thick-walled, rugged housing

The product has a rugged metal housing, which reliably protects it from all kinds of impacts, such as workpiece collision and stepped on.



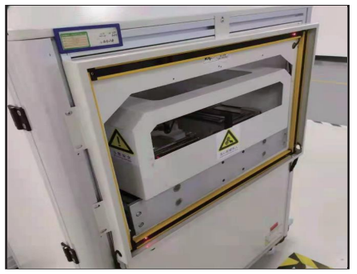
Crash, knock

Tead

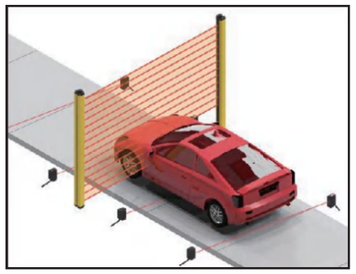
Fall

Application scenario

Detection of production line movement section protection



Automated operational protective detection



Assembly line safety protective detection

Safety sensor