**SENSORS & SAFETY**

**Datalogic** has more than 40 years of experience in the sensors and safety sector, developing their first product, a **Photoelectric Sensor**, in 1972. Today, Datalogic is one of the largest manufacturers of sensor and safety products worldwide.

**Datalogic** is the market leader in Italy for photoelectric sensors and safety light curtains, ranking among the **top-10 manufacturers** in Europe by market share.

Datalogic’s **Sensors and Safety** portfolio solves customer applications in **Factory Automation**, specializing in Processing and Packaging machinery, and Automated Material Handling Systems related to Manufacturing Industries such as Automotive, Electronics, Pharmaceutical, Food & Beverage, Paper and Printing, Woodworking, Ceramics, Glass, Textiles and more.

* (source: based on VDC 2010 - 2011)

**APPLICATIONS**
- De-Palletizing
- Storage & Retrieval
- Washing
- Cartoning
- Filling
- Wrapping
- Capping
- Vertical Form Fill & Seal
- Labeling
- Processing
- Case Packing
- Safety light curtains for Finger, Hand, and Body protection
- Stretch-wrapping
- Temperature controllers for heat-sealing and thermo-forming applications
- Palletizing

**SENSOR PRODUCTS**

**SENSORS PRODUCT RANGE**
- **Universal Function**
  - M18 Tubular sensors
  - Fiber optic sensors
  - Mini size sensors
  - Midi size sensors
  - Maxi size sensors

- **Application Specific Function**
  - Form sensors
  - Contrast / Colour
  - Luminescence
  - Area sensors
  - Dimensional sensors
  - Distance sensors

- **Other Sensors**
  - Inductive
  - Ultrasonic
  - Capacitive
  - Temperature

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SAFETY PRODUCTS

SAFETY PRODUCT RANGE

- Safety Light Curtains Type 2 and Type 4
- Base / Extended Functionalities
  - Auto / Man Restart
  - Exit Device Monitoring
  - Muting
  - Override
  - Blanking
  - Cascadable

- High / Low Resolution
- Finger Protection
- Hand Protection
- Body Protection
- Presence Control

- Dimensional sensors for height/width measurement and object positioning
- TOF distance sensors for measurement and object positioning
- Safety light curtains for Body protection with Muting function

Contrast and Luminescence sensors
Area sensors
Maxi and Compact sensors for object detection

CASE PACKING
STRETCH-WRAPPING
PALLETTIZING
STORAGE & RETRIEVAL
LABELING
WRAPPING
CARTONING

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**SG2/SG4 BASE**

Finger and hand presence safety detection with basic functions
High reliability, easy installation and alignment, improved cost saving

**TECHNICAL DATA**

- Safety Type 2 (P1=c, SIL1); Safety Type 4 (P1=e, SIL3)
- Resolution: Finger 14mm; Hand 30mm; Pres. 50/90mm
- Controlled heights from 150 to 1800mm (n x 150mm)
- Operating distance: Finger 6m; Hand 19m; Pres. 9/19m
- Auto/Manual restart; EDM; Anti-interference coding
- Easy and cost effective standard M12 5-pole connector

**APPLICATIONS**

- Automatic machinery
- Metalworking; Woodworking
- Manufacturing (textile, ceramics, etc)
- Material handling, assembly lines

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**SG4 EXTENDED**

Finger and hand safety detection with programmable functions
Extended flexibility that fits a diverse range of machine needs,
with remote configuration or monitoring and configuration cloning features

**TECHNICAL DATA**

- Programmable Safety Light Curtain Type 4 (P1=e, SIL3)
- Resolution: Finger 14 mm; Hand 30 mm
- Controlled heights from 300 to 1800mm (n x 150mm)
- Operating distance: Finger 7m; Hand 20m
- Compact; No dead zone; up to 3 cascadable units
- Fully programmable: Auto/Man restart, EDM, coding, Muting (T/L, total/partial, with/without timeout, etc.), Fixed/floating blanking; reduced resolution function
- Ethernet Port, SG Dongle and Graphic User Interface

**APPLICATIONS**

- Processing and packaging machines
- Automotive, metalworking, presses
- Manufacturing assembly lines

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**SAFETY PRODUCTS**

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**SG BODY BIG**

Body safety protection and perimeter access control
Robust product with high reliability and easy installation

**TECHNICAL DATA**

- 52x56mm profile with improved mechanical resistance
- 2, 3 or 4 beams for Body protection and access control
- Controlled heights of 500, 800, 900, 1200mm
- Longer operating distance of 60m
- Dip-switch configuration of Auto/Man, EDM, Coding
- Muting version with integrated arms and top-lamp
- Reflector version with active unit and passive unit

**APPLICATIONS**

- Palletizers/depalletizers
- Automotive, robotized lines
- Automated storage and retrieval
- Automated warehousing
- AGV and forklift area protection

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**SG BODY COMPACT**

Body safety protection and perimeter access control
High reliability, easy installation and alignment, improved cost savings

**TECHNICAL DATA**

- 35x40 mm standard compact profile
- 2, 3, or 4 beams for Body protection and access control
- Controlled heights of 500, 800, 900, 1200 mm
- Long operating distance up to 50 m
- Dip-switch configuration of Auto/Man, EDM, Coding
- Muting version with L or T integrated arms and lamp
- Easy and cost effective standard M12 connectors

**APPLICATIONS**

- Palletizers/depalletizers
- Conveyor lines
- Automated warehousing
- Manufacturing lines
Safety Light Curtains

**SG4-H**

Finger protection in applications where high hygienic requirements need frequent cleanings with highly corrosive detergents.

The first safety light curtain with stainless steel housing and glass

**TECHNICAL DATA**

- Safety Type 4 (Pl=e, SIL3)
- Resolution: 14 mm
- Protected height: 150/300/450 mm
- Operating distance: 0.2 ...6m
- Outputs: 2 PNP; Output current: 0.5 A max / each output
- Mechanical protection: IP69K
- Restart: Automatic

**APPLICATIONS**

- Liquid filling machines
- Powder filling machines
- Closing and cap sealing machines

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Safety Light Curtains

**SLIM**

Finger and Hand protection where space saving and mechanical flexibility is a must.

**TECHNICAL DATA**

- Safety Type 2 (Pl=c, SIL1); Safety Type 4 (Pl=e, SIL3)
- Resolution: 14/24/34 mm
- Protected height: 150, 210, 270 ... 1200 mm (with 30 mm steps)
- Operating distance: 0.2 ...6m
- Outputs: 2 PNP; Output current: 0.3 A max / each output
- Mechanical protection: IP65
- Restart: Manual/Automatic
- Other functions: External Device Monitoring (EDM)

**APPLICATIONS**

- Food & Beverage, Processing and Packaging
- Electronics and mechanics assembly machinery
- Quality inspection
- Material Handling

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Muting accessories

**SG-M**

The Muting Sensors modular kit comes ready-to-use for easy installation: offers flexible regulation of the position and orientation of muting beams, in order to adapt quickly and easily to any situation.

**TECHNICAL DATA**

- Ready-to-use kits for bidirectional muting in T or X configuration, or monodirectional muting in L configuration
- Retroreflective, dark-on photocells, with the possibility of beam intensity regulation
- Maximum distance: 7 m
- Sensors and reflectors can be positioned along the arms and orientated both horizontally and vertically
- Fast connection of up to 4 sensors to safety light curtain through a Connection Box with M12 connectors
- 700 mm or 2000 mm cables, to install the kit on the light curtains or on protective stands

**APPLICATIONS**

- Palletizers / Depalletizers
- Conveyor lines
- Material handling
- Food & Beverage, Metal working, Automotive, Wood, Ceramics Industries.

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Safety controller and single beam light curtains

**SG BWS**

Body safety protection and perimeter access control

**TECHNICAL DATA**

- Configurable safety control units type 4 (Pl=e, SIL3)
- Dip-switch configuration of Auto/Man restart, EDM
- SG-BWS-T4-MT with single or double muting function
- Controlling 2 light curtains or 1-4 safety light beams:
  - S5 operating distance 0-8m, Laser 0-40m
  - S300 operating distance 0-40m
- Double PNP output or SPST Relay 250Vac/24Vdc 5A

**APPLICATIONS**

- Palletizers/depalletizers
- Conveyor lines
- Automated warehousing
- Manufacturing lines