

PRODUCT GUIDE

>Safety



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, Wood-working, Ceramics, Glass, Textiles and more.

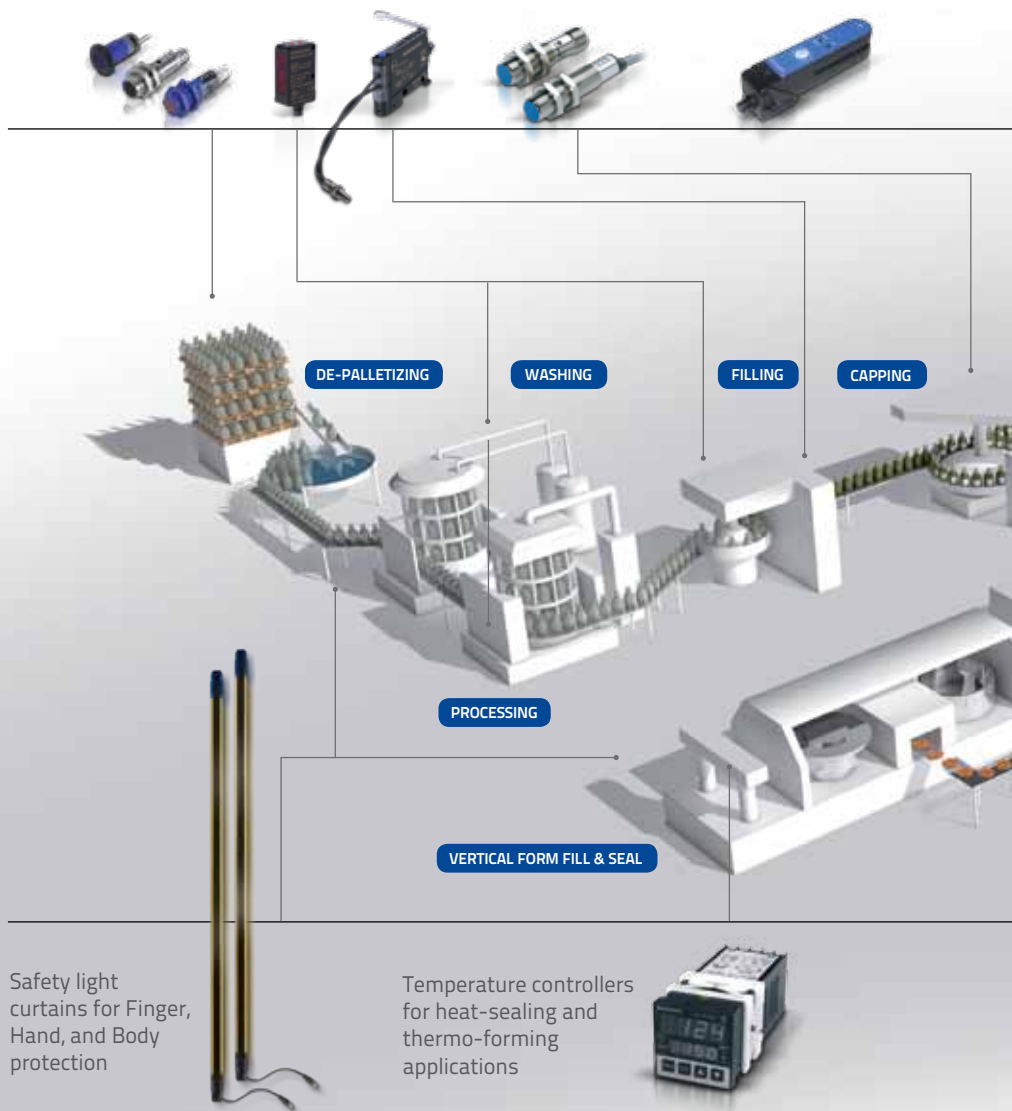
* (source: based on VDC 2010 - 2011)

APPLICATIONS	De-Palletizing	Storage & Retrieval
	Washing	Cartoning
	Filling	Wrapping
	Capping	Vertical Form Fill & Seal
	Labeling	Processing
	Case Packing	
	Stretch-wrapping	
	Palletizing	

Tubular, Miniature and Fiber Optic sensors for object detection

Inductive proximity sensors

Fork sensors for label detection



SENSOR PRODUCTS

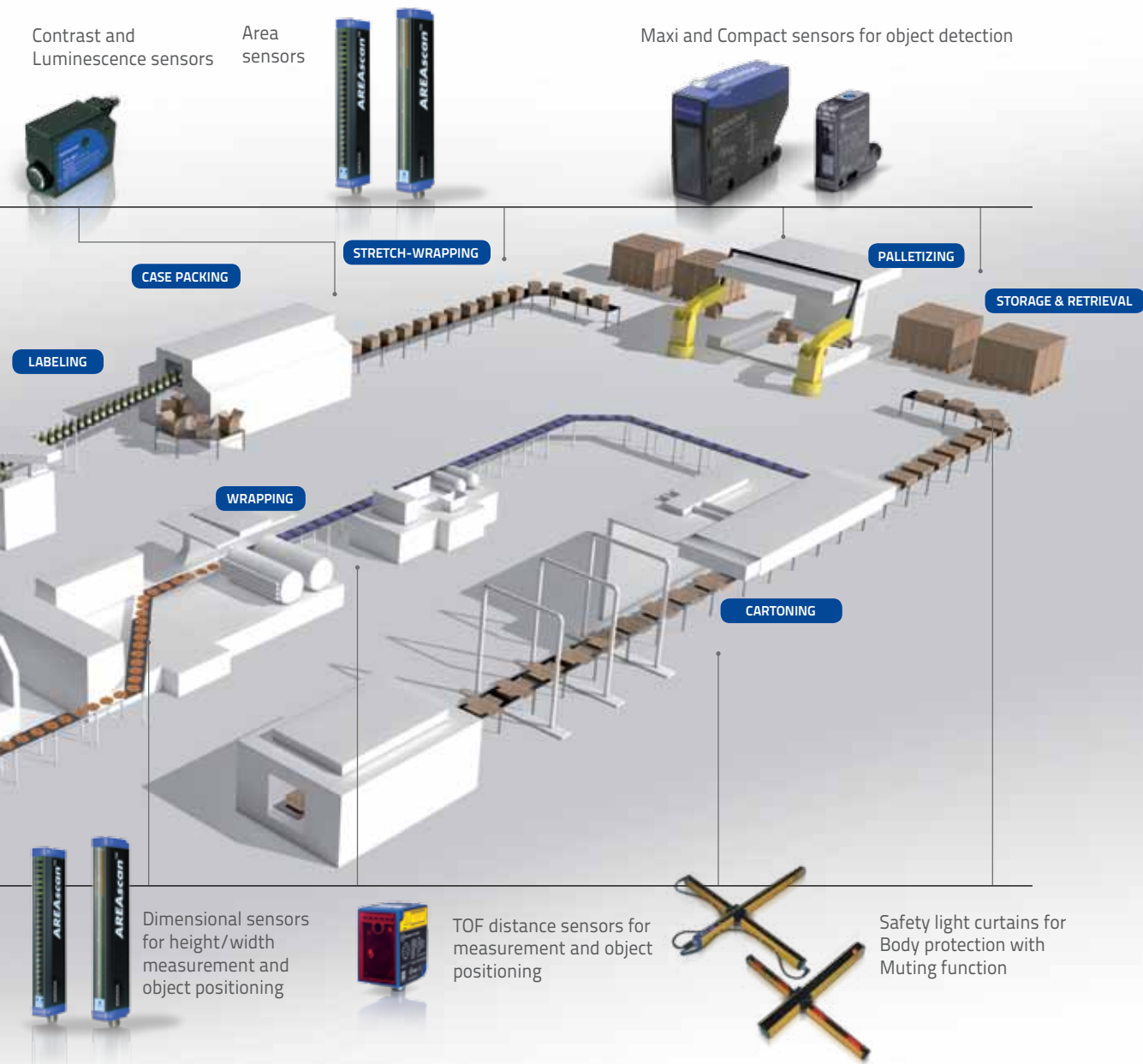
SENSORS PRODUCT RANGE



Contrast and
Luminescence sensors

Area
sensors

Maxi and Compact sensors for object detection



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

SAFETY PRODUCTS

SAFETY PRODUCT RANGE

Safety Light Curtains
Type 2 and Type 4

HIGH / LOW
RESOLUTION

FINGER
PROTECTION

HAND
PROTECTION

BODY
PROTECTION

PRESENCE
CONTROL

BASE / EXTENDED
FUNCTIONALITIES

AUTO / MAN
RESTART

EXT DEVICE
MONITORING

MUTING

OVERRIDE

BLANKING

CASCADABLE

other safety products

Controller
Light beam
Module
Relay unit
Accessories

Safety Light Curtains

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 (PI=c, SIL1); Safety Type 4 (PI=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



Safety Light Curtains

SG4 EXTENDED

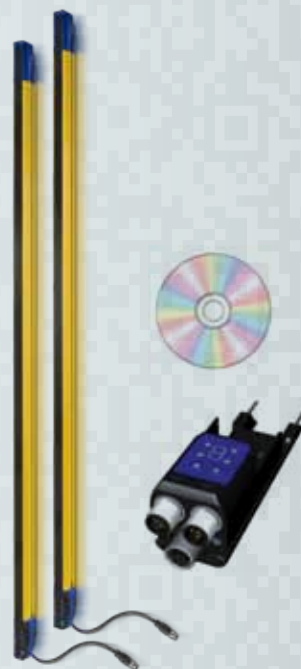
Finger and hand safety detection with programmable functions
Extended flexibility that fits a diverse range of machine needs, with remote configuration or monitoring and configuration cloning features

TECHNICAL DATA

- Programmable Safety Light Curtain Type 4 (PI=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 cascable 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



SG BODY BIG

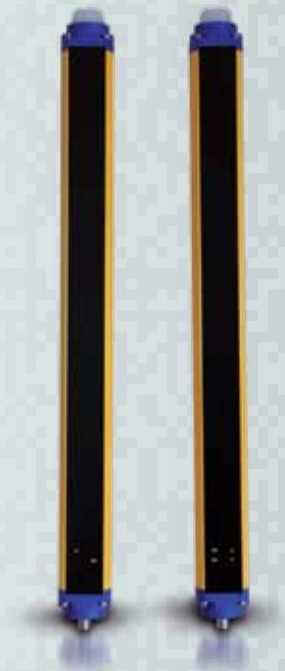
Body safety protection and perimeter access control
Robust product with high reliability and easy installation

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



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



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 (PI=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

SLIM

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



TECHNICAL DATA

- Safety Type 2 (PI=c, SIL1); Safety Type 4 (PI=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

SG-M

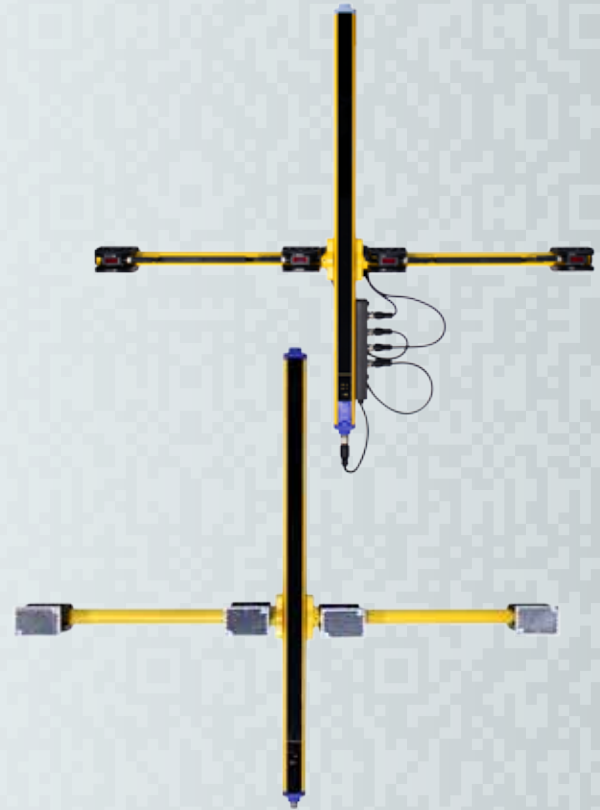
The Muting Sensors modular kit comes ready-to-use for easy installation: offers flexible regulation of the position and orientation of muting beams, in order to adapt quickly and easily to any situation

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.



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



SAFETY ACCESSORIES



- Mirrors
- Protective stands
- Protective shields
- Safety modules
- Safety relays
- Muting boxes
- Muting arms
- Muting lamps
- Laser pointer
- Brackets

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