

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.

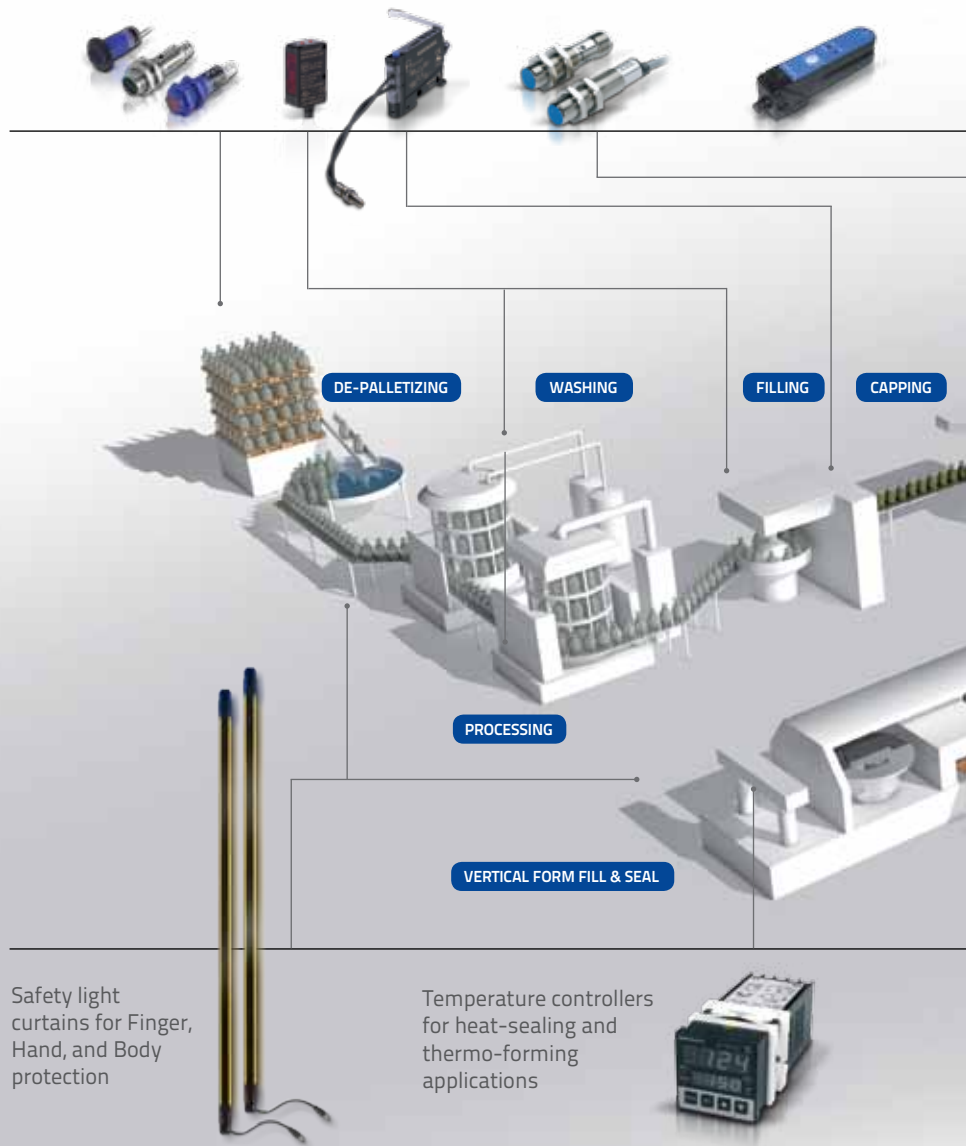
* (source: based on VDC 2010 - 2011)

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

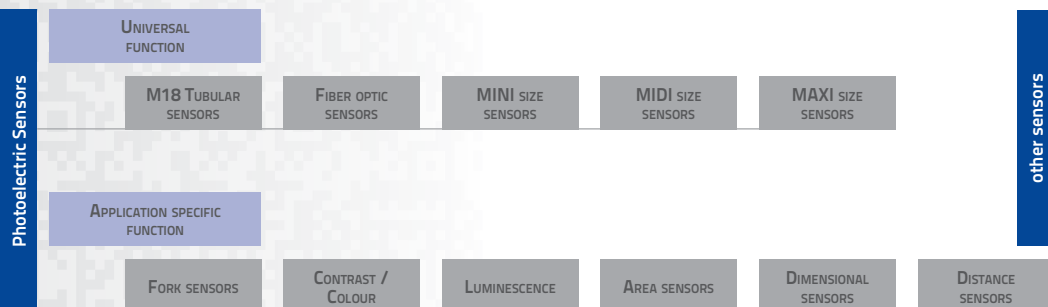


Safety light curtains for Finger, Hand, and Body protection

Temperature controllers for heat-sealing and thermo-forming applications

SENSOR PRODUCTS

SENSORS PRODUCT RANGE



other sensors

- Inductive
- Ultrasonic
- Capacitive
- Temperature

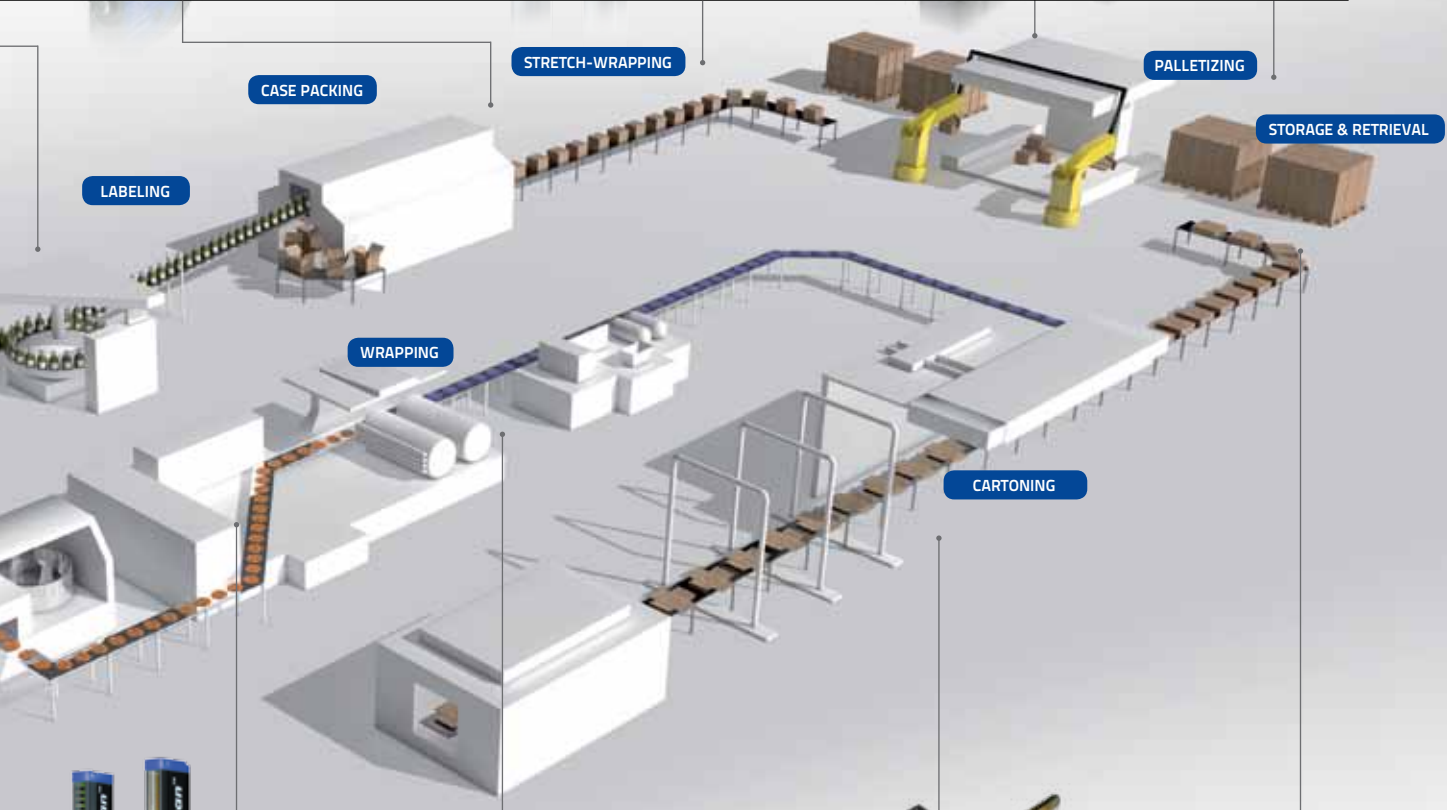
Contrast and Luminescence sensors



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

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

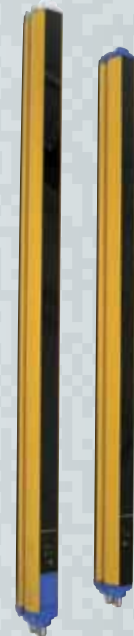
Body safety protection and perimeter access control
High reliability, easy installation and alignment, improved cost savings

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.

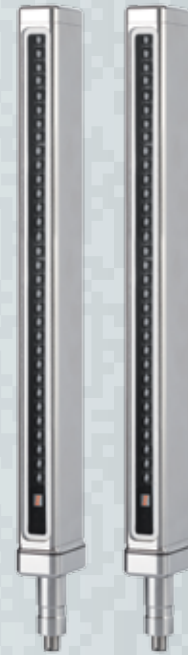
The first safety light curtain with stainless steel housing and glass

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

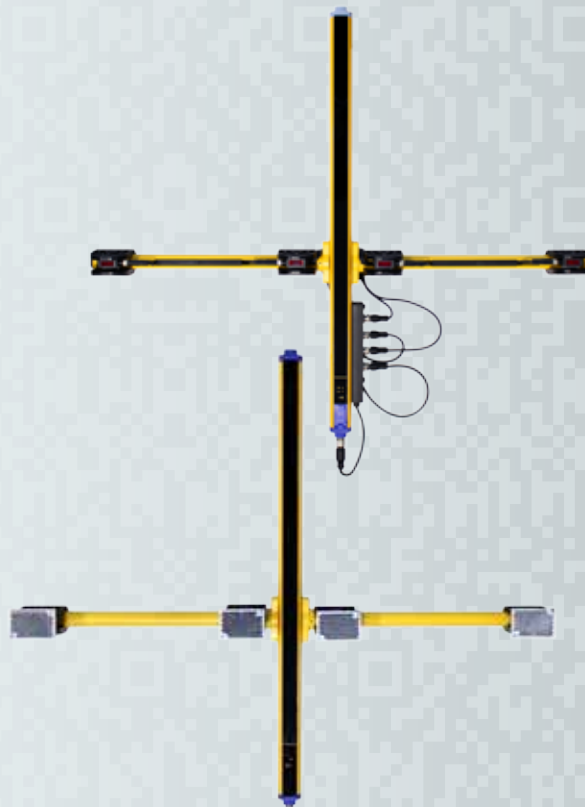
The Muting Sensors modular kit comes ready-to-use for easy installation: Offers flexible regulation of the position and orientation of muting beams, in order to adapt quickly and easily to any situation

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
Cost effective, flexible safety layout and system configuration

TECHNICAL DATA

- Configurable safety control units type 4 (PI=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, SL5 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

HEADQUARTERS

Datalogic Automation Srl

Via Lavino, 265
40050 Monte San Pietro - Bologna - Italy
Tel: +39 051/6765611
info.automation.it@datalogic.com

BRANCHES AND SALES OFFICES

EUROPE BENELUX

Datalogic Automation Benelux

Newtonweg 3
4104 BK Culemborg - The Netherlands
Tel. +31 345/589489
info.automation.nl@datalogic.com

FRANCE

Datalogic Automation Srl

Succursale en France
Le Parc Technologique de Lyon
333 cours du 3ème Millénaire - Le Pôle
69800 Saint Priest
Tél. +33 (0)4/72476180
info.automation.fr@datalogic.com

GERMANY

Datalogic Automation Srl

Niederlassung Central Europe
Gottlieb-Stoll-Straße 1,
73271 Holzmaden
Tel. +49 7023 7453-100
info.automation.de@datalogic.com

ITALY

Datalogic Automation Italy

Via Lavino, 265
40050 Monte San Pietro - Bologna
Tel. +39 051/6765611
info.automation.it@datalogic.com

Via Taormina 1
20093 - Cologno Monzese (MI) Italy
Tel. +39 02 25151211
info.automation.it@datalogic.com

Via Le Gorrey, 10 11020, Donnas - Aosta
Tel. +39-0125-8128201
info.automation.it@datalogic.com

SPAIN

Datalogic Automation Iberia

Sucursal en España
C/ Frederic Mompou 4 esc A, 4º puerta 3ª
08960 Sant Just Desvern - Barcelona
Tel. +34 (0)93/4772059

NORDIC

Datalogic Automation AB

Höjrodergatan 21
21239 Malmö - Sweden
Tel. +46 (0)40/385000
info.automation.se@datalogic.com

UNITED KINGDOM

Datalogic Automation UK

Datalogic House
Dunstable Road, Redbourn - Hertfordshire
AL3 7PR
Tel. +44 (0) 1582 791750
info.automation.uk@datalogic.com

TURKEY

Datalogic ADC Turkey

Merkezi İtalya İstanbul Merkez Şubesi Süleyman
Seba Cad. No:48 BJK Plaza A. Blok Kat:4 D.44
34357 - İstanbul - Turkey
Tel. +90 212 396 1550
info.adc.tr@datalogic.com

NORTH AMERICA

Datalogic Automation Inc

511 School House Road
Telford, PA 18969-1196 - United States
Tel. +1-800-BAR-CODE or +1-215-723-0981
info.automation.us@datalogic.com

Datalogic Automation Inc

MACHINE VISION
5775 W Old Shakopee Rd
STE 160, Bloomington, MN 55437
United States
Tel. +1-952-996-9500
info.automation.us@datalogic.com

SOUTH AMERICA

Datalogic Brazil

Avenida Olivio Roncoletta, 465
Bairro Vila Hortolandia Jundiã (SP), Brazil
Tel. +55 11 29232600
info.automation.br@datalogic.com

APAC

Australia-New Zealand

Datalogic Automation Pty Ltd

Unit 130, 45 Gilby Road
Mt Waverley - Victoria, 3149 - Australia
Tel. +61 (0)3/95589299
info.automation.au@datalogic.com

CHINA

Datalogic Automation Asia

2nd Floor, 10 Building, Dayuan Industrial Zone,
No. 1, Pingshan 1st Road,
Liuxuan Blvd. Xili, Nanshan District,
518054, Shenzhen, China
Tel: +86 (0)755-8629 6779
info.automation.cn@datalogic.com

Suite 1301, Hua Rong Plaza,
1289 South Pudong Road, Pudong District
Shanghai 200120
Tel: +86 (0)21-5836 6692
info.automation.cn@datalogic.com

Floor 20, Room 2019, Building 2,
16 West Nan San Huan Road
Fengtai District, Beijing
Tel: +86 (0)10-8757 6375
info.automation.cn@datalogic.com

1202, Excellence Build, 128 Yanji Road,
Shibe District, Qingdao, China
Tel: +86 (0)532 55787889

JAPAN

Idec Auto-Id Solutions Corporation

8-10, Shioe 5-chome, Amagasaki Hyogo,
Japan 661-0976
Tel. +81-6-7711-8880
www.idec.com

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