

 **Leuze electronic**

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the **sensor** people



VARIO

The sleek, switching
light curtain for reliable object detection
and area monitoring



Object detection made easy.

The switching light curtain: **VARIO**.

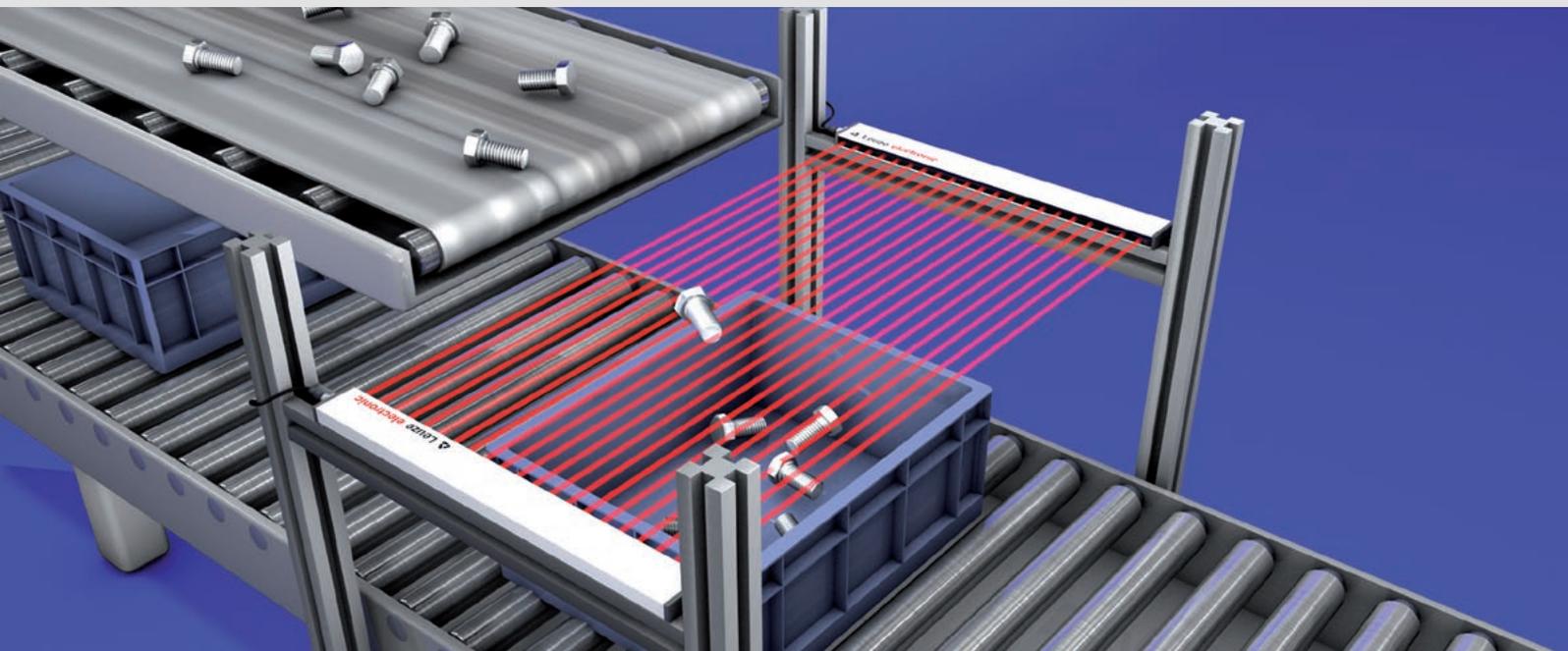
Economical, flexible, compact installation.

This system consists of transmitter and receiver creating a monitoring field out of numerous light beams and generates a reliable switching signal as soon as objects penetrate the monitoring field. Low cost installation, compact construction and the integrated evaluation unit make the VARIO a cost-effective and flexible sensor solution for your automation area.

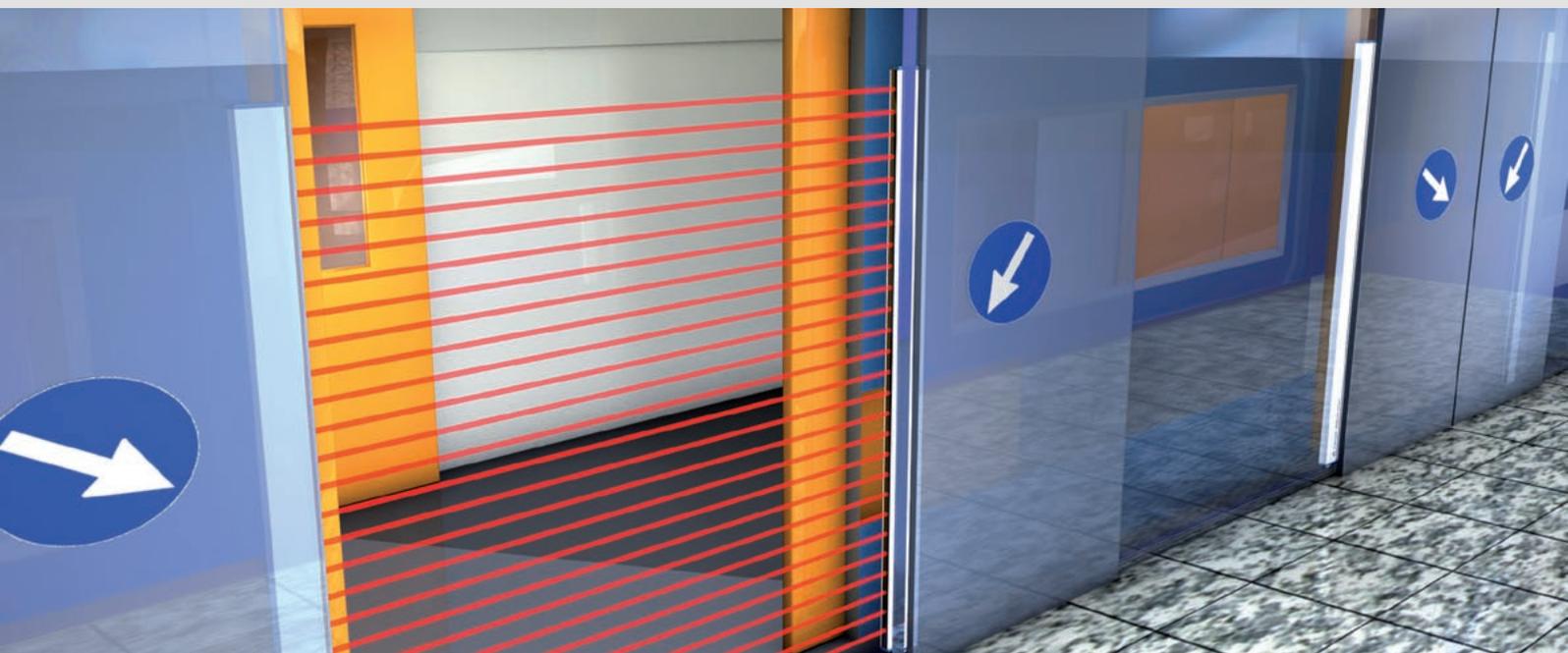




Overhang control



Object detection



Field monitoring

Unbeatable advantages with **VARIO**.

Ideal areas of application

- Overhang monitoring for conveyor systems and object feed.
For example: Large storage areas and painting systems.
- Object/person control and counting.
For example: Access controls, object counting in automated production systems.
- Area monitoring.
For example: In public transport, elevators, access areas.
- Process controls in packaging systems.
For example: Stacking controls, process controls with plastic wrap packaging systems.

Your benefits

- Numerous areas of application with fast cycle time (<60 ms), in combination with a wide range of resolutions (5 to 100 mm) and measurement field heights of up to 3.10 m.
- Quick and easy installation with factory-set parameters; M8 connector and calibration routine.
- Large range of adaptations to various applications via customer specific parametersetting (e.g. detection mode, sensor sensitivity, signal definition) and compact design.
- Highest level of operation reliability with integrated system control (warning signal), ambient light resistance and short circuit-proof wiring.

Unbeatable advantages

- Flexibility via wide range of:
 - Beam spacing: 5 mm to 100 mm
 - Monitoring height: 35 mm to 3100 mm
 - Modular setup: 8 to 64 beams
- Measurement distance of 700 mm to 5000 mm
- Parallel and diagonal beams for increased detection reliability
- PNP and NPN outputs separately configurable:
 - Assignment of different monitoring areas on switching outputs
 - Dust detection warning
- Factory-set or customer-set parametering
- Electronic calibration of the light grid optimizes object detection in every situation
- Very compact housing dimensions, resulting in flexible usage options (10 x 27 mm or 12 x 85 mm)
- Minimum installation cost
- Adaptability to various applications with parametering via PC software (VARIOsoft)

Technical data.

Technical data	
Max. number of beams	64
Beam distance spacing	5 / 12.5 / 25 / 50 / 100 mm
Distance range	up to 5 m
Response time	Max. 60 ms
Optical wavelength	Infrared 880 nm
Max. dealignment angle between transmitter and receiver	$\pm 10^\circ$
Ambient light resistance	Halogen 500W outside $\pm 10^\circ$; Insolation 200,000 LUX, outside $\pm 25^\circ$
Signal outputs	2x push-pull semiconductor output, short circuit-proof, max. 100 mA
Connection	M8 plug connection or direct cable 4 m with conductor sleeves
Operating voltage	24 VDC ($\pm 10\%$), grounded
Power consumption	Approx. 8 W
Protection rating	IP54
Operating temperature	-10°C to 45 °C
Humidity	Up to 90 % relative humidity, non-condensing
Housing	Aluminum, natural, anodized
Dimensions (W x D)	12 x 58 mm with 5 mm beam distance; otherwise 10 x 27 mm



Optoelectronic Sensors

Cubic Series
Cylindrical Sensors, Mini Sensors, Fibre Optic Amplifiers
Measuring Sensors
Special Sensors
Light Curtains
Forked Sensors
Double Sheet Monitoring, Splice Detection
Accessories

Identification Systems

Data Transmission Systems

Distance Measurement

Barcode Readers
RF-IDent-System
Modular Interfacing Units
Industrial Image Processing Systems
Optical Data Transmission Systems
Optical Distance Measurement/Positioning
Hand-Held Readers

Safety Sensors

Safety Systems

Safety Services

Safety Laser Scanners
Safety Light Curtains
Transceiver and Multiple Light Beam Safety Devices
Single-Beam Safety Devices
AS-i-Safety Product Range
Safety Sensor Technology for PROFIBUS DP
Safety Switches and Safety Locking Devices
Safety Relays and Safety Interfaces
Sensor Accessories and Signal Devices
Machine Safety Services

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