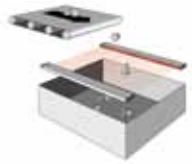
Reliable Measuring Light Grids!

DUOmetric

Characteristics and Applications



Performance

DUOmetric light grids stand out for their simplicity and versatility. Robustness, compact size and an optimal price-performance ratio, distinguish them from the competition.

Properties

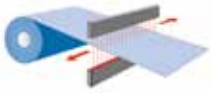
DUOmetric light grids meet the highest standards of quality and flexibility for cost-efficient, customer-oriented solutions.

- Modular system
- Extensive functions
- Simple set-up (integration)
- Low installation costs

Advantages

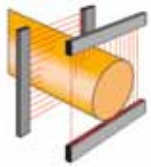
Many industries benefit from the versatile applications of modern measuring light grids from DUOmetric:

- Smooth production processes
- Quality control support
- Transparent material flow
- Optimal storage utilization
- Improved reliability



Application Examples

- Object detection
- Height control
- Poka Yoke solutions
- Pick-to-Light
- Process Control
- Contour detection
- Warehouse (logistics) optimization
- ...



Light Grid Systems

Profiles

Transmitter and receiver profiles form the modular measuring unit.

- 5 to 112 mm beam spacing
- Monitoring height up to 6 m
- Monitoring range up to 25 m
- Robust and compact
- Easy installation

Controller

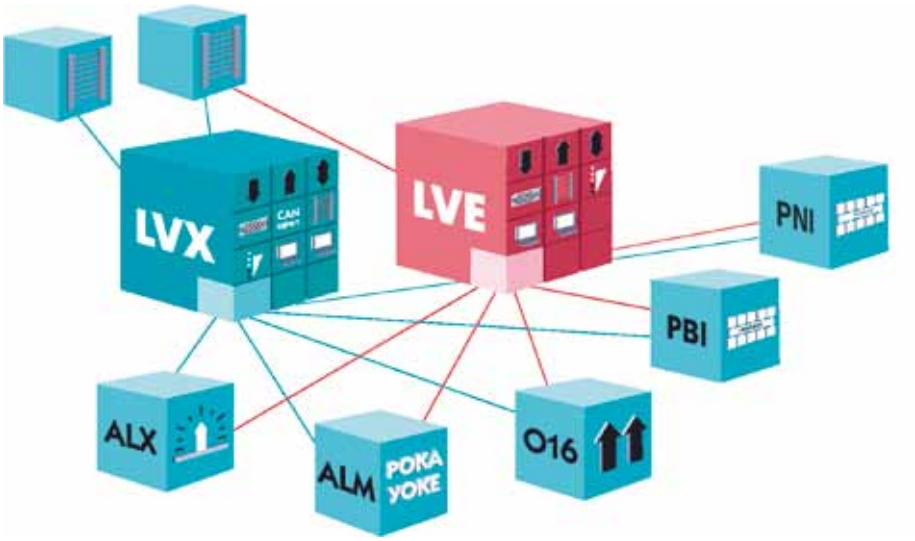
The controller is the interface of the light grid sensor to the data processing system.

- Fast data processing (minimum 6 µs / beam)
- More than 1000 logical beams
- Variety of data interfaces
- Customizable configuration

A typical light curtain system:
transmitter and receiver profiles with LVX controller

Data Output and Interfaces

Derived from the individual beam signals, the intelligent controller transmits the measurement results via appropriate data interfaces to your data processing and control system.



Description	LVE	LVX
Outputs	1x	3x
Combined IOs	3x	3x
Inputs	1x	1x
Serial interface	✓	✓
CANopen	-	✓
Number of profiles	1x	2x
Diagnostic LED	✓	✓
Configurable	✓	✓
Beam Diagnostics	✓	✓
Extension boards		
O16 (16 outputs)	✓	✓
ALM (6 LED strips)	✓	✓
ALX (2 voltages)	✓	✓
PBI (Profibus)	✓	✓
PNI (Profinet)	✓	✓

Beam Spacing & Profiles

Beam Spacing:

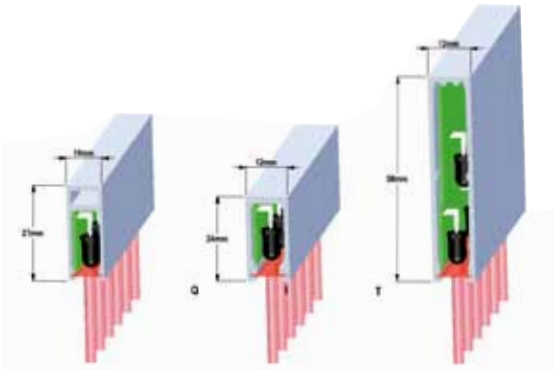
5 mm
10 mm
12.5 mm
25 mm
27.94 mm
50 mm
55.88 mm
100 mm
111.76 mm

Variation of beam spacing

The DUOmetric light grid program offers a wide range of beam spacings. In a particular operational mode resolution down to 1 mm is achieved. Monitoring height ranges from 35 mm to 6000 mm.

Profile options

DUOmetric offers a wide range of different light grid profiles. Their compact size and robust aluminum onstruction offers quick and safe installation.



About us

Reliable full-service

In the field of optical sensors, we offer cost effective solutions tailored to your needs. The results are innovative light grid systems that meet even the most demanding customer requirements. And, the DUOmetric team is your reliable and competent partner a light-grid-life long.

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