

DUOmetric

measure // detect

DETECTING LIGHT GRIDS

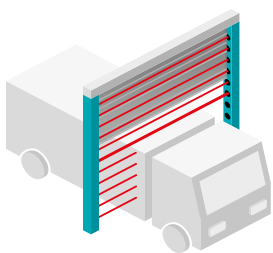


- » handle
- » monitor
- » verify
- » ...

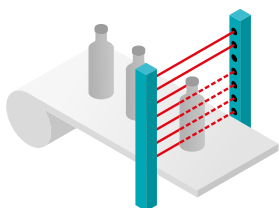
EXPERIENCED | POWERFUL | SOLUTION ORIENTED
Your partner for industrial opto sensors.

APPLICATIONS

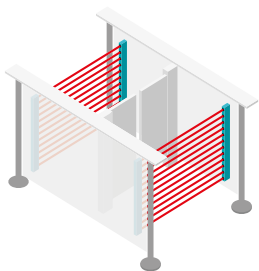
In DUOmetric's detecting light grids, the controller is integrated into the transmitter and receiver profiles. This makes our light grids compact, slim and powerful.



DOOR AND DOCK MONITORING
Our monitoring systems for doors and docks can be built up to a monitoring height of 6 meters. They offer safety and comfort for our customers.



MATERIALS HANDLING
The automated transport of goods requires smooth process operations. Our products help to streamline processes for factory logistics and control.



ACCESS GATE SYSTEMS
Detecting light grids are also used to control the flow of people. They are built into automated boarding gates or used for direction detection in security door systems.

DUOmetric industrial light grids are efficient control devices for plant-, logistics- and process-automation.

LS-LIGHT GRIDS

Typically used in monitoring and process control applications, the LS light grids offer enhanced functionality and performance over their predecessor.



An innovative highlight is the circuit controlled function selection through polarity of the supply voltage. By changing the polarity, different device profiles can be selected. Thereby it is simple to change between two monitoring areas or between

dark- and light-switching logic, without having to load different configuration parameters into the controller.

Furthermore, the functionality can be used for dynamic changes of certain device characteristics. An example could be a controller driven modification of two predefined beam blanking settings.



For enhanced system diagnostics and fault detection, the LS light grid supports deactivation of the transmitter elements. With a suitable integration in the master process controller, a system start-up test and periodical system diagnosis for the entire signal chain (control I/Os, cables, sensor pair) is possible.

SPECIFICATIONS

OPTICAL DATA

Monitoring height	35 ... 5800 mm
Range Area 1:	1,0 ... 5,0 m (opt. 3 ... 16 m)
Area 2:	0,3 ... 1,3 m
Number of beams	4 (8) ... 160
Beam spacing	5 / 10 / 12,5 / 25 / 46 / 50 / 100
Light source IR-LED	880 nm
Base cycle time	4 ms
Per beam cycle time	1 ms
Synchronization	optical
Analyzing method	parallel beams parallel and diagonal beams
Controller	integrated

**SLIM AND COMPACT -
INTEGRATED CONTROLLER!**

ELECTRICAL DATA

Operating voltage	24 VDC (18 ... 30 VDC) / 10% ripple
Power consumption	nominal 3,1 W
Input surge current	max. 7,5 A / 40 μ s
Outputs	PNP/NPN (push-pull)

ENVIRONMENTAL DATA

Ambient temperature	-30 ... +50°C (operational)
Humidity	< 90 % relative / non condensing
Protection class	IP 20 / (IP65)
Compliance	ROHS / REACH CE / cCSAus

OPTIONS

Flexibility is our strength- DUOmetric products are developed and configured according to the requirements of our customers and partners. Optional we can customize various details like size, mounting, cable length, etc.

PROFILE TYPE

I-12x24 mm



Q-10x27 mm



R-12x49 mm



T-12x58 mm



Z-14x65 mm



FRONT COVER

O- Plastic / red (standard)

F- Plastic / red with peel-off protective foil

S- PMMA black

G- Glass

K- Clear plastic window with scratch-resistant coating

W- PMMA white diffuse

CABLE OUTLET

O- front side (standard)

H- back side

F- side looking



ADDITIONAL
CONFIGURATION OPTION,
EFFICIENT PRODUCT VARIATIONS
AND USEFUL ACCESSORIES CAN
BE FOUND ON OUR WEBSITE:
WWW.DUOMETRIC.DE

ABOUT US

We work in close cooperation with our customers and consider the demanding requirements of various industries to provide flexible solutions for your applications.



Development

Know-how – new and innovative products emerge from the heads of our engineering and development team.



Manufacturing

Implement ideas- the heart of DUOmetric works with precision manufacturing to ensure the high German quality standard.



Service

You can count on us- helping hands are ready to support you in the consulting, planning and implementation phase

Our products have key benefits.
Simple installation and set-up, long service life,
highest quality and many more.

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