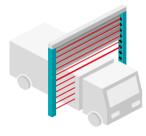
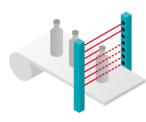


### APPLICATIONS

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.

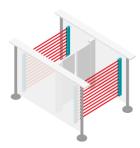


DOOR AND DOCK MONITORING Our monitoring systems for doors and docks can be built up to a monitoring height of 6 meters. They offer safety and comfort for our customers.



### 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 startup test and periodical system diagnosis for the entire signal chain (control I/Os, cables, sensor pair) is possible.

### **SPECIFICATIONS**

## OPTICAL DATA

Monitoring height		33 3600 HIIII
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

parallel and diagonal beams

Light source IR-LED 880 nm
Base cycle time 4 ms

Per beam cycle time 1 ms

Synchronization optical

Analyzing method parallel beams

Controller integrated

# SLIM AND COMPACT - INTEGRATED CONTROLLER!

### **ELECTRICAL DATA**

Outputs

Operating voltage	24 VDC (18 30 VDC) /
	10% ripple
Power consumption	nominal 3,1 W
Input surge current	max. 7,5 A / 40 μs

### **ENVIRONMENTAL DATA**

Ambient temperature	-30 +50°С (operational)
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Humidity < 90 % relative /

non condensing

PNP/NPN (push-pull)

Protection class IP 20 / (IP65)
Compliance ROHS / REACH

KOHS / 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**

0- 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.

### **DUOmetric AG**

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