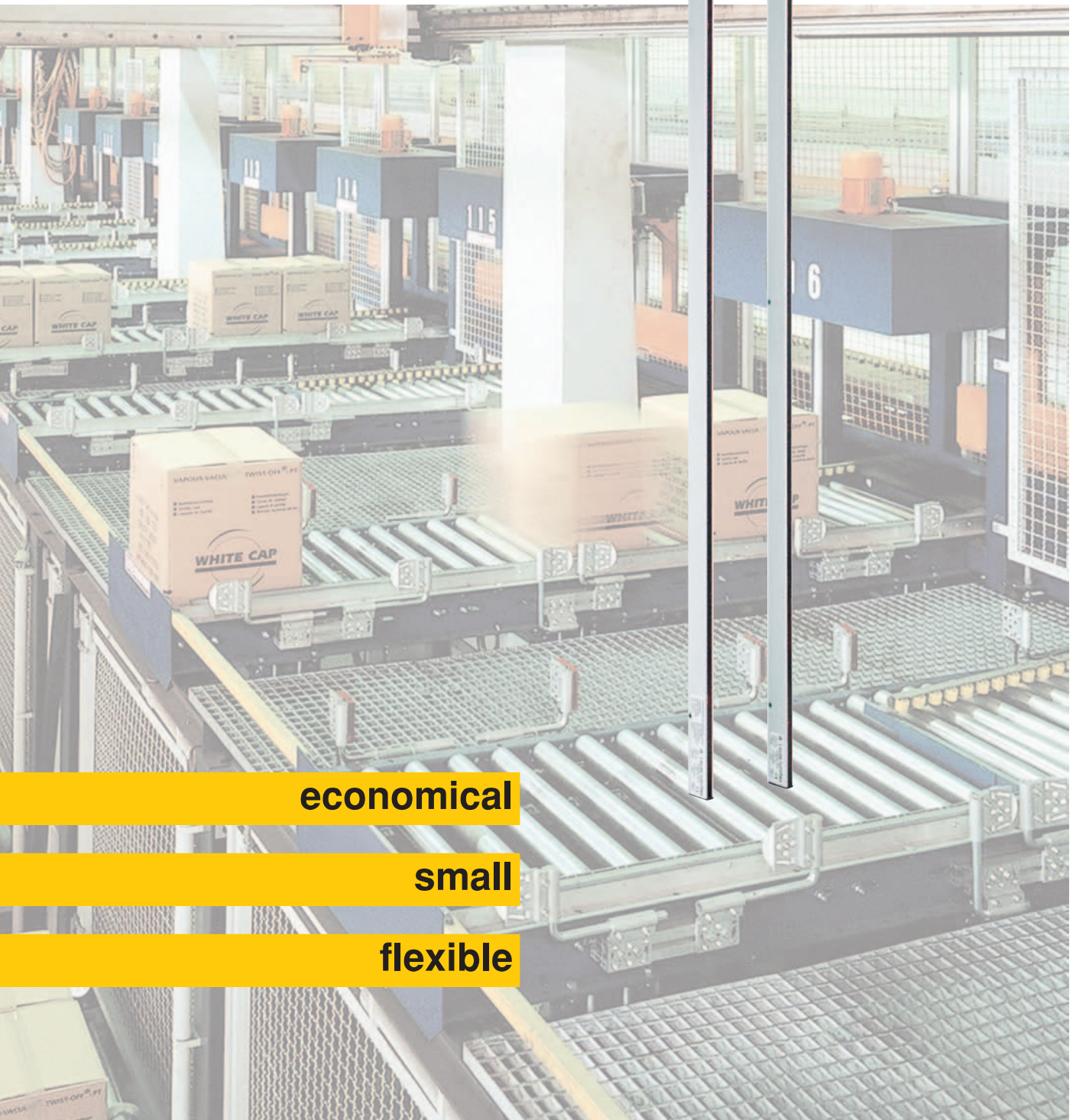


VARIO

Switching light grid for object detection



economical

small

flexible



VARIO at a glance

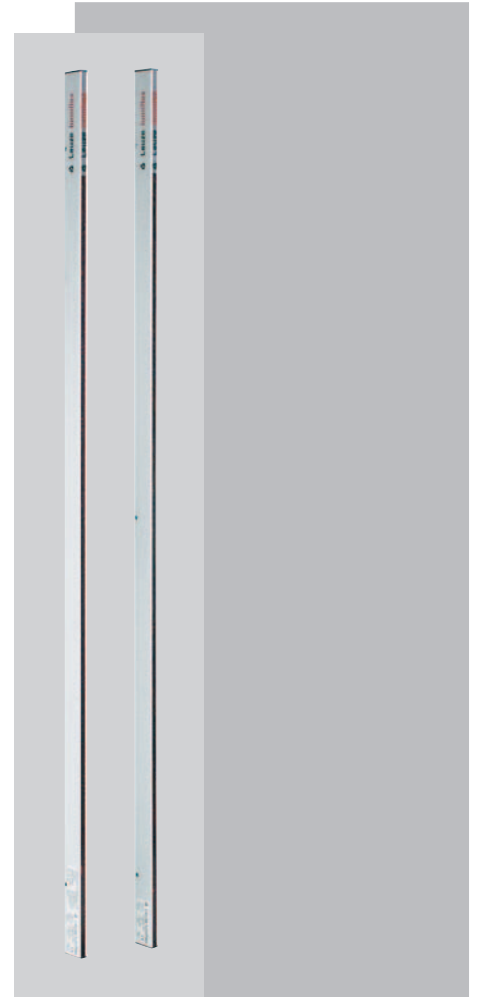
The system, consisting of a transmitter and receiver, produces a monitoring field from many infrared light beams and generates a reliable switching signal as soon as objects penetrate the monitoring field. VARIO's attractive price to performance ratio, its small design and integrated evaluation unit make it an economical sensor solution for flexible use in automation.

Advantages

- Excellent price/performance ratio, thus providing optimal return on investment
- Large selection of different beam spacings from 5 mm to 100 mm
- Large selection of different monitoring heights from 35 mm to 3100 mm
- Very small housing dimensions thus ensuring flexibility in possible applications (10 x 27 mm or 12 x 58 mm)
- Parallel and diagonal beams offer greater reliability in detection
- Electronic calibration of light grid optimizes object detection at different ranges
- No separate evaluation unit or synchronization line required, thus reducing system and installation expenses
- Short-circuit-proof outputs increase system availability
- Time-saving installation with on-site parameter assignment

Areas of application

Overhang monitoring, process automation, material flow control, packaging technology, storage/conveyor systems, production monitoring, and many more.





VARIO system variants

Order number	Brief dscpt.	Function	Beam spacing *	Monitoring height *
V5-35				
64810000	VT5-35	VARIO transmitter	5	35
6491000X	VR5-35	VARIO receiver	5	35
V5-75				
64812000	VT5-75	VARIO transmitter	5	75
6491200X	VR5-75	VARIO receiver	5	75
V5-115				
64814000	VT5-115	VARIO transmitter	5	115
6491400X	VR5-115	VARIO receiver	5	115
V5-155				
64816000	VT5-155	VARIO transmitter	5	155
6491600X	VR5-155	VARIO receiver	5	155
V12.5-88				
64820000	VT12.5-88	VARIO transmitter	12.5	88
6492000X	VR12.5-88	VARIO receiver	12.5	88
V12.5-188				
64822000	VT12.5-188	VARIO transmitter	12.5	188
6492200X	VR12.5-188	VARIO receiver	12.5	188
V12.5-288				
64824000	VT12.5-288	VARIO transmitter	12.5	288
6492400X	VR12.5-288	VARIO receiver	12.5	288
V12.5-388				
64826000	VT12.5-388	VARIO transmitter	12.5	388
6492600X	VR12.5-388	VARIO receiver	12.5	388
V25-175				
64830000	VT25-175	VARIO transmitter	25	175
6493000X	VR25-175	VARIO receiver	25	175
V25-375				
64832000	VT25-375	VARIO transmitter	25	375
6493200X	VR25-375	VARIO receiver	25	375
V25-575				
64834000	VT25-575	VARIO transmitter	25	575
6493400X	VR25-575	VARIO receiver	25	575
V25-775				
64836000	VT25-775	VARIO transmitter	25	775
6493600X	VR25-775	VARIO receiver	25	775

Order number	Brief dscpt.	Function	Beam spacing *	Monitoring height *
V50-350				
64840000	VT50-350	VARIO transmitter	50	350
6494000X	VR50-350	VARIO receiver	50	350
V50-750				
64842000	VT50-750	VARIO transmitter	50	750
6494200X	VR50-750	VARIO receiver	50	750
V50-1150				
64844000	VT50-1150	VARIO transmitter	50	1150
6494400X	VR50-1150	VARIO receiver	50	1150
V50-1550				
64846000	VT50-1550	VARIO transmitter	50	1550
6494600X	VR50-1550	VARIO receiver	50	1550
V100-700				
64850000	VT100-700	VARIO transmitter	100	700
6495000X	VR100-700	VARIO receiver	100	700
V100-1100				
64851000	VT100-1100	VARIO transmitter	100	1100
6495100X	VR100-1100	VARIO receiver	100	1100
V100-1500				
64852000	VT100-1500	VARIO transmitter	100	1500
6495200X	VR100-1500	VARIO receiver	100	1500
V100-1900				
64853000	VT100-1900	VARIO transmitter	100	1900
6495300X	VR100-1900	VARIO receiver	100	1900
V100-2300				
64854000	VT100-2300	VARIO transmitter	100	2300
6495400X	VR100-2300	VARIO receiver	100	2300
V100-2700				
64855000	VT100-2700	VARIO transmitter	100	2700
6495500X	VR100-2700	VARIO receiver	100	2700
V100-3100				
64856000	VT100-3100	VARIO transmitter	100	3100
6495600X	VR100-3100	VARIO receiver	100	3100

Replace the eighth place in the order number for receivers as follows:

X = 0 = light switching, parallel beam

X = 1 = light switching, parallel and diagonal beam

X = 2 = dark switching, parallel beam

X = 3 = dark switching, parallel and diagonal beam

* All measures in mm

Additional versions available on request

Technical data

Housing material	Aluminum, natural anodized, front pane made of synthetic materials, dark red. (Do not use any cleaning agents containing solvents!)
Cross section of housing	12x58 mm at beam spacing of 5 mm ; 10x27 mm at beam spacing 12.5, 25, 50, 100 mm
Connection	Unconnected cable end 4 m in length, ready made with wire sleeves.
Transmitter	2-wire round line, Ø approx. 4.9 mm; PVC coating for solid mounting. Eave length approx. 880 mm
Receiver	4-wire round line, Ø approx. 4.9 mm; PVC coating for solid mounting.
Permissible deviation from adjustment	± 10° (between the transmitter bar and receiver bar)
Operating voltage	24 V DC (± 10%), protected against reverse polarity; use a grounded power supply!
Power consumption	Approx. 8 W (total)
Outputs	Short-circuit-proof semi-conductor outputs, PNP, max. circuit current 200 mA
Operating temperature	-10 °C to 45 °C
Humidity	Up to 90 % relative, non-condensing
Range	Approx. 0.7 ... 4 m (with standard parameter settings)
Response time:	Parallel beams: Approx. 100 ms; diagonal beams: Approx. 200 ms
Maximum number of beams	32
Protection type	IP54 (others available on request)