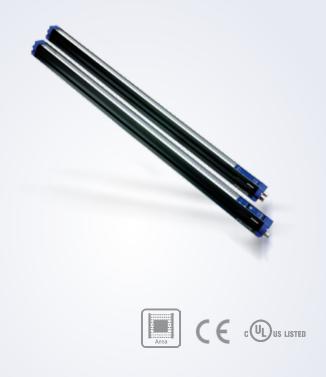


DS₂





AREASCAN™ DETECTION AND MEASUREMENT LIGHT **GRIDS WITH SERIAL OR ETHERNET INTERFACE**

- 6 or 25 mm resolution
- Relative measurement precision ± 6 mm or ± 22.5 mm
- 150 1650 mm controlled heights
- Operating distance up to 10 m
- PNP and 0-10 V Analog output and RS485 or Ethernet interface

APPLICATIONS

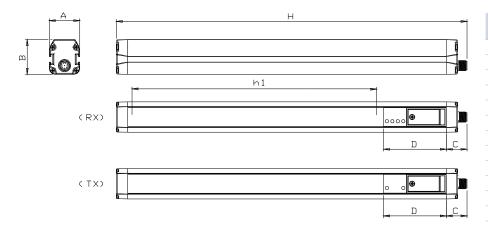
- Processing and Packaging machinery
- · Food, Cosmetic, Pharmaceutical
- · Electronics and mechanical assembling
- Conveyor lines and sorting systems

	DS2			
Light array (controlled height)		1501650 mm		
Resolution		6 or 25 mm		
Number of bosons		21231 (res= 6mm)		
Number of beams		666 (res= 25mm)		
Light emission		IR LED		
Response time		590 ms		
Interface		serial RS485 or Ethernet		
Catting.		Dip-switches		
Setting		Graphic interface		
Operating distance		0,35 m (res= 6mm)		
Operating distance		0,310 m (res=25mm)		
	Vdc	24V +/- 20%		
Power supply	Vac			
	Vac/dc			
	PNP	•		
	NPN			
Output	NPN/PNP			
	relay			
	other	010 V Analog output		
	cable			
Connection	connector	•		
	pig-tail pig-tail			
Approximate dimensions (mm)		35x40x(2561726)		
Housing material		aluminium		
Mechanical protection		IP65		

TECHNICAL DATA

Power supply	24 Vdc ± 20%			
Consumption on emitter unit (TX)	250 mA max. load excluded			
Light emission	IR LED 880 nm			
Output	PNP; analog output			
Output current	100 mA			
Saturation voltage	1,5 V max.			
Connection	M12 4-pole connector (TX), M12 8-pole and M12 4-pole type "D" connector (RX)			
Dielectric strength	500 Vac, 1 min between electronics and housing			
Insulating resistance	>20 MΩ, 500 Vdc between electronics and housing			
Electrical protection	class I			
Mechanical protection	IP65 (EN 60529)			
Vibrations	0,5 mm amplitude, 10 55 Hz frequency, for every axis (EN60068-2-6)			
Shock resistance	11 ms (30 G) 6 shock for every axis (EN60068-2-27)			
Housing material	painted aluminium (Pulverit 5121/0085 Black)			
Lens material	PMMA			
Operating temperature	0 50 °C			
Storage temperature	-2570°C			
Weight	1,9 - 4,6 kg			

DIMENSIONS

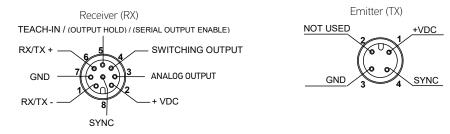


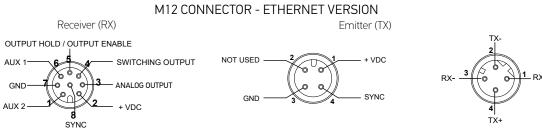
MODEL				
DS2-05-07-015-XX	35 x 40	256	23.8	72.5
DS2-05-07-030-XX	35 x 40	403	23.8	72.5
DS2-05-07-045-XX	35 x 40	550	23.8	72.5
DS2-05-07-060-XX	35 x 40	697	23.8	72.5
DS2-05-07-075-XX	35 x 40	844	23.8	72.5
DS2-05-07-090-XX	35 x 40	991	23.8	72.5
DS2-05-07-105-XX	35 x 40	1138	23.8	72.5
DS2-05-07-120-XX	35 x 40	1285	23.8	72.5
DS2-05-07-135-XX	35 x 40	1432	23.8	72.5
DS2-05-07-150-XX	35 x 40	1579	23.8	72.5
DS2-05-07-165-XX	35 x 40	1726	23.8	72.5
DS2-05-25-045-XX	35 x 40	562	23.8	72.5
DS2-05-25-060-XX	35 x 40	713	23.8	72.5
DS2-05-25-075-XX	35 x 40	864	23.8	72.5
DS2-05-25-090-XX	35 x 40	1015	23.8	72.5

XX: JV for serial models or JE for ETHERNET models

CONNECTIONS

M12 CONNECTOR - SERIAL VERSION





INDICATORS AND SETTINGS

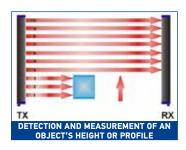


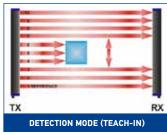






DETECTION MODE EXAMPLES





And more applications:

- Object height measurement (vertical mounting);

- Object height measurement (Vertical mounting);
 Object distance measurement (horizontal mounting);
 Object volume measurement (vertical and horizontal combination);
- Single or multiple object presence and/or position detection in a given area;
- Missing label detection on multiple lanes;
- Vertical warehouse drawers positioning;
 Box or other objects profiling on conveyors;
- Web edges or center guiding;
- Cartoners, stackers and palletizers.

RESPONSE TIME - SERIAL AND ETHERNET VERSION

	Tmin (msec)							Tmax (msec)	
		T2	Т3	T4	T5	T6	T7		
		CONFIGURATION							
MODEL RS485		Top beam				Complete beams status			
MODEL R3403	Binary	Binary	ASCII	ASCII	Binary	Binary	ASCII	ASCII	
	57600 baud	9600 baud	57600 baud	9600 baud	57600 baud	9600 baud	57600 baud	9600 baud	
DS2-05-07-015-JV	5.5	12.5	5.05	13	5.5	15	6.5	10	
DS2-05-07-030-JV	7	14	7	14.5	7	18	8.5	21	
DS2-05-07-045-JV	8.5	15.5	8.5	16	8.5	21	10	24	
DS2-05-07-060-JV	10	17	10	18	10	26	12	38	
DS2-05-07-075-JV	11.5	18.5	11.5	19	11.5	31	15	44	
DS2-05-07-090-JV	13	20	13	20	13	36	17	54	
DS2-05-07-105-JV	14.5	21.5	14.5	22	14.5	40	19	62	
DS2-05-07-120-JV	17	24	17	24	17	44	21	70	
DS2-05-07-135-JV	18.5	25	19	26	19	48	23	80	
DS2-05-07-150-JV	20	26.5	21	28	21	53	25	84	
DS2-05-07-165-JV	22	28	23	30	23	56	28	91	
DS2-05-25-045-JV	5	11	5	11	5	13	6	18	
DS2-05-25-060-JV	5.5	12	5.5	12.5	5.5	14.5	6.5	19.5	
DS2-05-25-075-JV	6	13	6	13.5	6	16	7	21	
DS2-05-25-090-JV	6.5	13.5	6.5	14.5	6.5	17.5	7.5	22.5	

		CONFIG	GURATION	
MODEL ETHERNET	То	p beam	Complete beams status	
	Binary	ASCII	Binary	ASCII
DS2-05-07-060-JE	10	10	10	12
DS2-05-07-075-JE	11.5	11.5	11.5	15
DS2-05-07-090-JE	13	13	13	17
DS2-05-07-120-JE	17	17	17	21
DS2-05-07-150-JE	20	21	21	25
DS2-05-07-165-JE	22	23	23	28

MODEL SELECTION AND ORDER INFORMATION

OPTIC FUNCTION	CONTROLLED AREA (mm)	OPTICS INTERAXIS (mm)		MODEL	
	147	6.75		DS2-05-07-015-JV	957501040
	294			DS2-05-07-030-JV	957501050
	441			DS2-05-07-045-JV	957501060
	588			DS2-05-07-060-JV	957501000
	735			DS2-05-07-075-JV	957501070
	882			DS2-05-07-090-JV	957501010
	1029		PNP, 0-10V and RS485	DS2-05-07-105-JV	957501080
	1176			DS2-05-07-120-JV	957501020
	1323			DS2-05-07-135-JV	957501090
Measurement	1470			DS2-05-07-150-JV	957501100
light curtain	1617			DS2-05-07-165-JV	957501030
	453	25		DS2-05-25-045-JV	957501110
	604			DS2-05-25-060-JV	957501140
	755			DS2-05-25-075-JV	957501120
	912			DS2-05-25-090-JV	957501130
	588		Voltage Analog and Ethernet	DS2-05-07-060-JE	957501150
	735	6.75		DS2-05-07-075-JE	957501160
	882			DS2-05-07-090-JE	957501170
	1176			DS2-05-07-120-JE	957501180
	1470			DS2-05-07-150-JE	957501190
	1617			DS2-05-07-165-JE	957501200

CABLES

	DESCRIPTION		MODEL	ORDER No.
		3 m	CS-A1-02-G-03	95A251380
	4-pole, grey, P.V.C.	5 m	CS-A1-02-G-05	95A251270
		10 m	CS-A1-02-G-10	95A251390
	/ nala DUD	2 m	CS-A1-02-R-02	95A251540
	4-pole, P.U.R.	5 m	CS-A1-02-R-05	95A251560
		3 m	CS-A1-06-B-03	95ACC2230
	8-pole, black, P.V.C.	5 m	CS-A1-06-B-05	95ACC2240
		10 m	CS-A1-06-B-10	95ACC2250
		3 m	CV-A1-22-B-03	95ACC1480
	4-pole, shielded, grey, P.V.C.	5 m	CV-A1-22-B-05	95ACC1490
		10 m	CV-A1-22-B-10	95ACC1500
		3 m	CV-A1-26-B-03	95ACC1510
		5 m	CV-A1-26-B-05	95ACC1520
	8-pole, shielded, black, P.V.C.	10 m	CV-A1-26-B-10	95ACC1530
Axial M12 Connector		15 m	CV-A1-26-B-15	95ACC2080
		25 m	CV-A1-26-B-25	95ACC2100
		3 m	CS-A1-02-U-03	95ASE1120
		5 m	CS-A1-02-U-05	95ASE1130
	4-pole, U.L., black, P.V.C.	10 m	CS-A1-02-U-10	95ASE1140
		15 m	CS-A1-02-U-15	95ASE1150
		25 m	CS-A1-02-U-25	95ASE1160
		3 m	CS-A1-06-U-03	95ASE1220
		5 m	CS-A1-06-U-05	95ASE1230
	8-pole, U.L., black, P.V.C.	10 m	CS-A1-06-U-10	95ASE1240
	8-pole, O.L., black, P.V.C.	15 m	CS-A1-06-U-15	95ASE1250
		25 m	CS-A1-06-U-25	95ASE1260
		50 m	CS-A1-06-U-50	95A252710
	4-pole, black	Connector-not cabled	CS-A1-02-B-NC	G5085002
	8-pole, black	Connector-not cabled	CS-A1-06-B-NC	95ACC2550
hernet cable M12/RJ45	4-pole	3m straight D coded	DATAVS-CV-RJ45D-03	95A901350