

GridScan/Pro

Technical data

FEATURES

- ▶ TÜV – EC Type examination certified
- ▶ SIL 2 certified
- ▶ Direct integration into the door edge due to door blanking
- ▶ Combined output with PNP/NPN (push-pull) and FSS
- ▶ Changeable operation between blanking and static mode
- ▶ Easiest alignment
- ▶ 2nd output for additional information
- ▶ Ideal for modernization projects due to FSS control unit
- ▶ Door closing speed up to 1.6 m/s
- ▶ Fulfills SIL 2 without testing if FSS output selected

OPTICAL

Operating range	1 ... 10 m
Number of elements	12 ... 52 (depending on edge length and resolution)
Max. protection height	Up to 2,500 mm
Max. ambient light	100,000 Lux

MECHANICAL

Cross section	12 mm × 14.5 mm
Housing material	Natural anodized aluminum
Enclosure rating	IP68 (Cable: IP67)
Temperature range	-40°C ... +60°C

ELECTRICAL

Supply voltage U_{sp}	10 ... 30 VDC
Max. current consumption at 24 VDC	50 mA
Output	PNP/NPN (push-pull) and FSS
Output load	100 mA, 100 nF
Typ. response time with 22 elements	40 ms
Max. response time with 22 elements	80 ms
Max. door closing speed	1.6 m/s
Max. door opening speed	> 3 m/s
Status LED Rx:	Object detected red
	No object detected green
Power LED Tx:	Power ok green

GENERAL

EMC emission	EN 61000-6-3:2007, EN 12015:2014
EMC immunity	EN 61000-6-2:2019, EN 12016:2013
Vibration	IEC 60068-2-6:2007
Shock	IEC 60068-2-27:2008
RoHS	2011/65/EU
Certificates	CE, TÜV
Safety category	EN ISO 13849-1:2015, Cat. 2, PL d EN 61508:2010, SIL 2 EN 12978:2003, +A1:2009 EN 12453:2017 E device
Applicable standards	UL 325:2012

CEDES AG reserves the right to modify or change technical data without prior notice.



CONNECTION CABLE AND ELECTRICAL CONNECTION

Synchronization cable

Length	10 m
Connection	Screwable M8, 4 pin
Diameter	Ø 3.5 mm
Material	PVC, black
Plug color	Black
Wires	AWG26
• brown	Usp
• blue	GND (0 V)
• black	Communication
• white	Not used

Connection cable

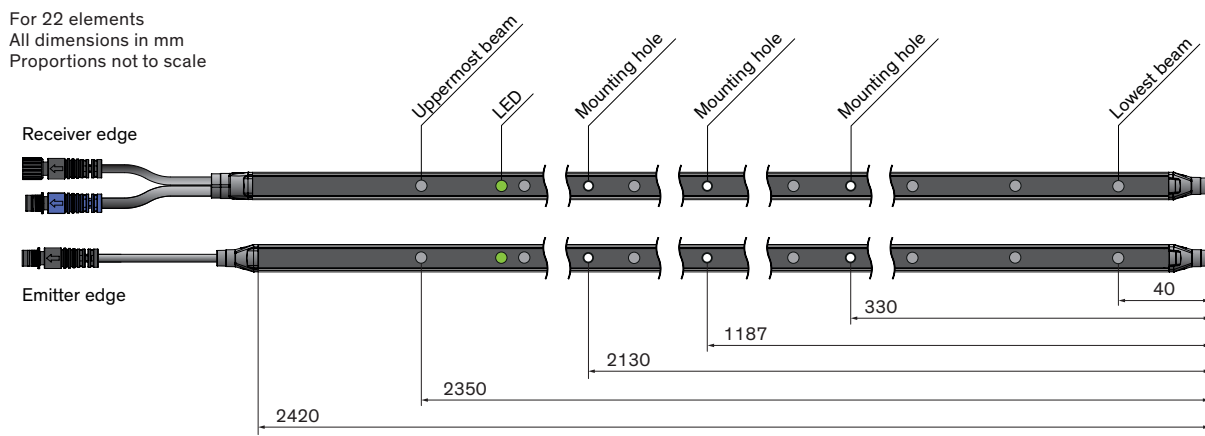
Cable length	5 m
Connection	Screwable M8, 6 pin
Diameter	Ø 4.2 mm
Material	PVC, black
Plug color	Blue
Wires	AWG26
• brown	Usp
• blue	GND (0 V)
• black	Output 1 (PNP/NPN and FSS)
• white	Test input
• gray	Selectable output logic
• green	Not used or Output 2 (PNP/NPN)



CEDES AG is certified according to ISO 9001: 2015.

Dimensions

For 22 elements
All dimensions in mm
Proportions not to scale

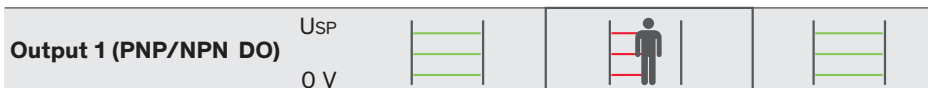


Selectable output logic

Output selector connected to GND (0 V)



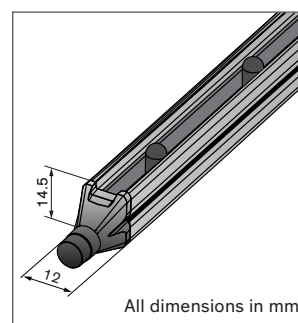
Output selector connected to USP



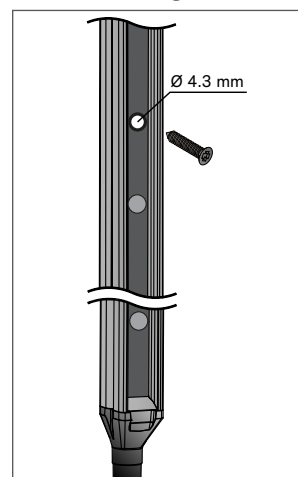
Output selector not connected (floated)



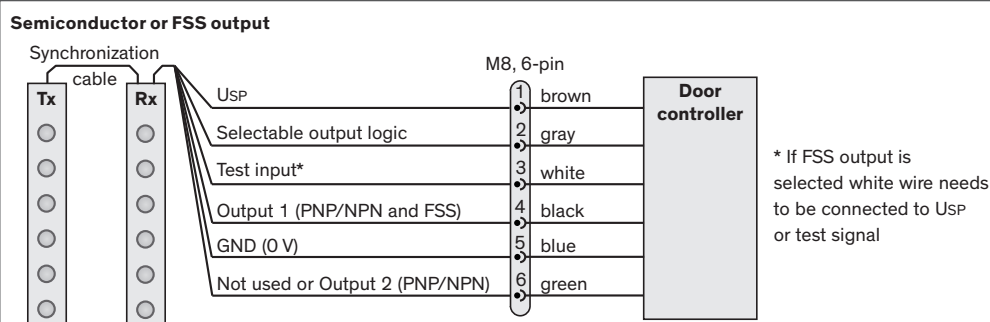
Detailed view



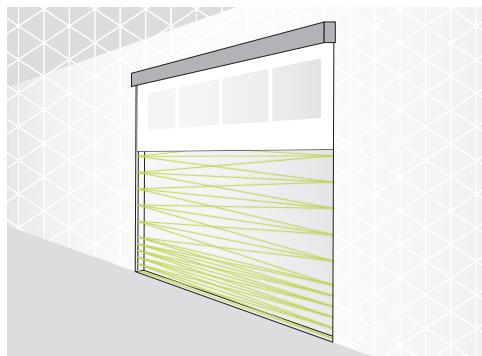
Front mounting



Connection diagram



Applications



High-speed and sectional doors
(with door blanking)



Sectional doors
(static mounting, without door blanking)