

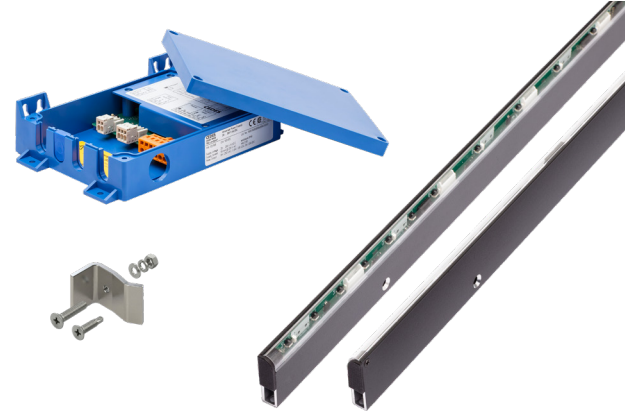
cegard/Smart 9-I Mod Package

Light curtain with integrated InfoLight

Technical data

FEATURES

- ▶ Intuitive red/green InfoLight guidance
- ▶ Flashing red LED closing alerts
- ▶ Enabled for:
Predictive maintenance via CEDES Elevate dashboard



OPTICAL - LIGHT CURTAIN (LC)

Operating range	0 ... 4 m
Protection height	1,824 mm
No. of elements	41
No. of beams	199
Max. ambient light	100,000 Lux
Wave length	940 nm, infrared

MECHANICAL

Dimensions (w × h × l (d))	
- Light curtain	9 × 32.5 × 1,970 mm
- UPS	200 × 45 × 128 mm
Housing material	
- Light curtain	Aluminum, black powder coated
Enclosure rating	IP54
Temperature range (operation / storage)	-20°C ... +60°C / -40°C ... +75°C

CONNECTION CABLE AND ELECTRICAL CONNECTION

Length	
- Pigtail	0.4 m (light curtain)
- Connection cable	5 m
Material	PVC, black
Cable diameter	Ø 4.2 mm
Connection	M8, 6-pin, Ø 10 mm
Plug color	
- Tx	White
- Rx	Blue
Wires	AWG26
• brown	Usp
• blue	GND (0 V)
• black	Tx: Selector Rx: Out
• white	Sync (only for FSSL)
• green	RS485 Channel 1 A
• gray	RS485 Channel 1 B

ELECTRICAL - LC | UNIVERSAL POWER SUPPLY (UPS)

	LC	UPS
Supply voltage Usp	10 ... 30 VDC	20 ... 265 VAC / 20 ... 375 VDC
Current consumption (w/o load)	< 100 mA (24 VDC)	< 30 mA at 24 VDC < 45 mA at 240 VAC
Inrush current	< 5 A (< 200 µs)	1.5 A
Output	Push-pull RS485, FSSL (*)	Relay
Relay contact rating		Max. 250 VAC / 5 A Max. 125 VDC / 0.5 A Max. 30 VDC / 5 A Min. 5 VDC / 10 mA
Output voltage	0.9 × Usp	24 VDC ±10%
Max. output load (push-pull)	100 mA, 100 nF	
Termination of RS485	120 Ω (internally)	
Baud rate	230,400 bit per second	
Output frequency FSSL	2 kHz / 1 kHz	
Rated output current		300 mA at 24 VDC
Typ. response time	< 110 ms	
Max. power-up time	3 s	4 s
Max. relay switching time		10 ms

LC - Emitter (Tx) indicator LED

Indicator LED 1	Red ON	Power
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LC - Receiver (Rx) indicator LEDs

Indicator LED 1	Red ON	Power
Indicator LED 2	Red OFF	No 2D object
Indicator LED 2	Red ON	2D object detected

UPS - 2 LED indicators

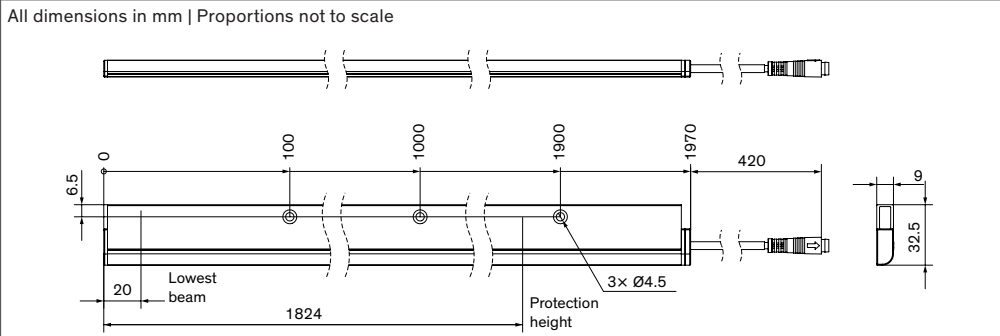
	Green	Power supply
	Orange	Output relay

GENERAL

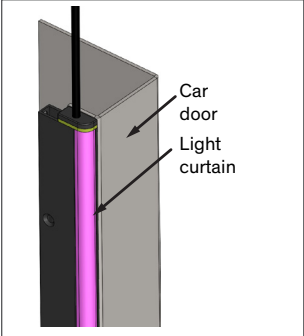
EMC emission	EN 12015:2021
EMC immunity	EN 12016:2013
Vibration	IEC 60068-2-6:2007
Shock	IEC 60068-2-27:2008
Cable durability	IEC 60227-2:2003
RoHS	2011/65/EU
CE certificate	EN 81-20:2020, ISO 8100-1:2026

(* FSSL = Frequency Safety Signal)

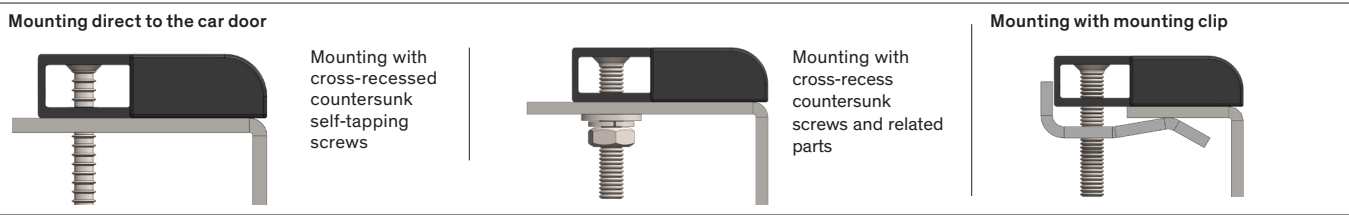
Dimensions - Light curtain



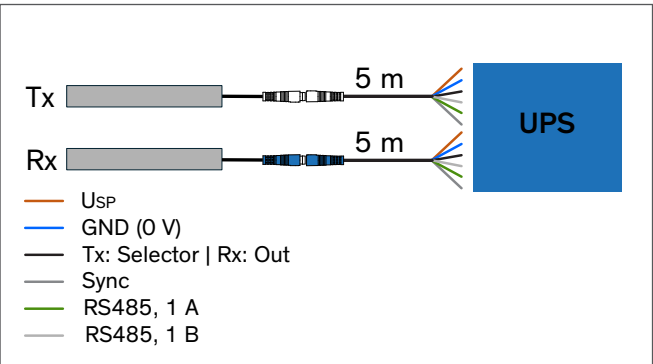
Detailed view



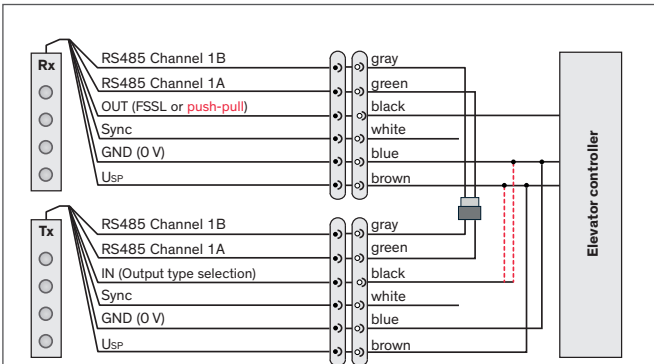
Mechanical integration



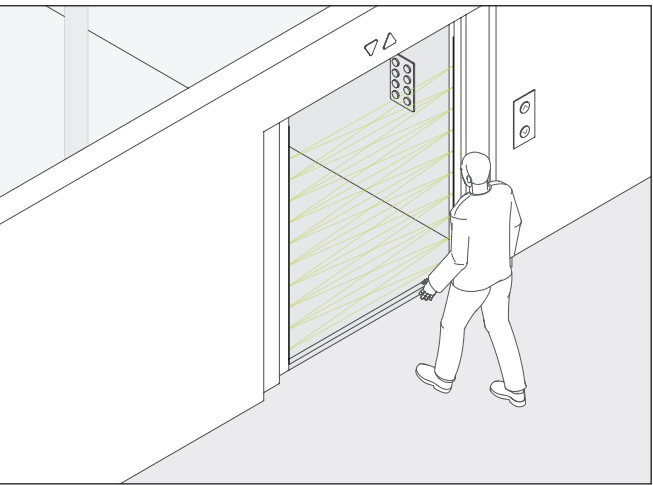
Wiring (with UPS)



Wiring (without UPS)



Application



2D detection

Contents of delivery

Pos.	Description	Qty
1	Light curtain system (emitter Tx and receiver Rx, 41 elements)	1
2	Connection cable Tx, 5 m, M8, 6-pin, open & Sync	1
3	Connection cable Rx, 5 m, M8, 6-pin, open & Sync	1
4	Universal Power Supply - UPS	1
5	Mounting kit for dynamic mounting, consisting of:	
	- 4.3 / 9x0.8 plain washer	7
	- M4 spring washer	7
	- M4x0.8 HEX nut	7
	- Cable tie, nylon, white, length 100 mm	6
	- Wiring clip (JAX-09H)	6
	- M4x25 cross recess flat head screw	7
	- ST 3.5x25 cross recess flat head tapping screw	7
	- Mounting angle for cegard/Smart 9-I, for dynamic mounting	7