

cegard/Mini-CC

Technical data

FEATURES

- ▶ Meets all requirements under EN 81-20
- ▶ Ideal for both static and dynamic applications
- ▶ Criss-cross beams remain active up to complete door closure
- ▶ IP65 (Standard) and IP67 (waterproof) versions available
- ▶ Low energy consumption
- ▶ Requires no grounding (earth)
- ▶ Edge can be front or side mounted – mounting holes are compatible with the range of CEDES MiniMax and cegard/Max light curtains



OPTICAL

Operating range	0 ... 4 m	
Protection height	20 elements	1,620 mm
	32 elements	1,800 mm
	36 elements	1,600 mm
No. of optical elements	20 / 32 / 36	
No. of beams	20 elements	94 beams
	32 elements	154 beams remain active to complete door closure
	36 elements	174 beams remain active to complete door closure
Max. ambient light	100,000 Lux	

MECHANICAL

Dimensions (w × h × l)	12 × 16 × max. 2,000 mm
Housing material	Black anodized aluminum
Enclosure rating	IP65
Temperature range (operation)	-40°C ... +60°C

ELECTRICAL

Supply voltage U _{Sp}	10 ... 30 VDC	
Typ. current consumption at 24 VDC (without load)	45 mA	
Max. inrush current per edge	< 2 A	
Output	PNP/NPN (push-pull)	
Output logic	NO/NC selectable	
Max. output load	120 mA, 100 nF	
Typ. response time with	20 elements	80 ms
	32 elements	120 ms
	36 elements	120 ms

GENERAL

EMC emission	EN 12015:2014
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
Certificates	CE, CSA

CONNECTION CABLE AND ELECTRICAL CONNECTION

Emitter

Cable length	5 m
Diameter	Ø 3.5 mm
Material	PVC, black
Connection	M8, 4-pin, Ø 9.5 mm
Plug color	White
Wires	AWG26
• brown	U _{Sp}
• blue	GND (0 V)
• black	Not used
• white	Not used

Receiver

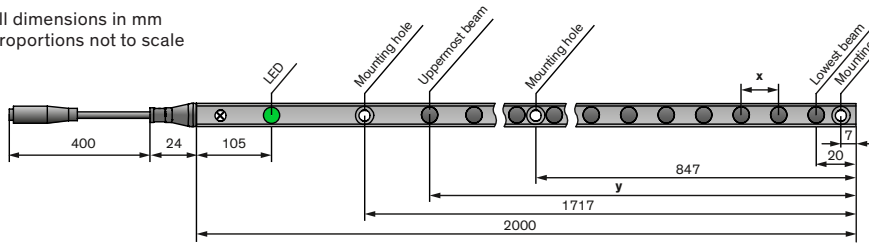
Cable length	5 m
Diameter	Ø 3.5 mm
Material	PVC, black
Connection	M8, 4-pin, Ø 9.5 mm
Plug color	Blue
Wires	AWG26
• brown	USP
• blue	GND (0 V)
• black	Output
• white	Selectable output logic



CEDES AG is certified according to ISO 9001: 2015.

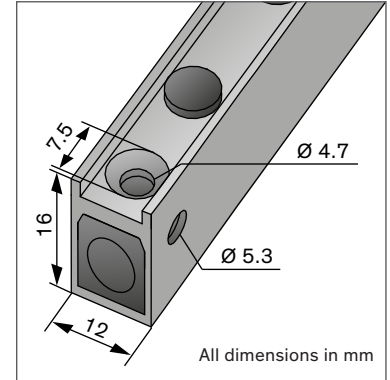
Dimensions

All dimensions in mm
 Proportions not to scale

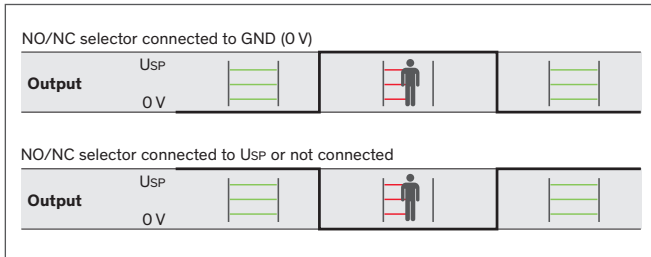


	20 elements	32 elements	36 elements
Grid x (mm)	84.2	57.4	45.1
Protection height y (mm)	1620	1800	1600

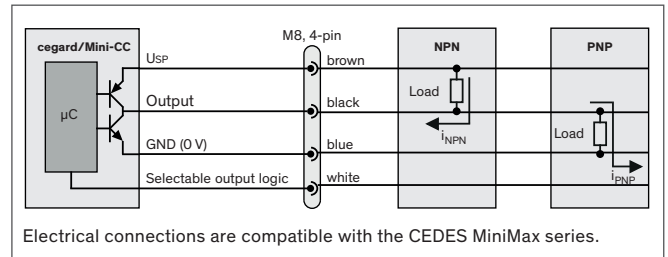
Detailed view



Selectable output logic

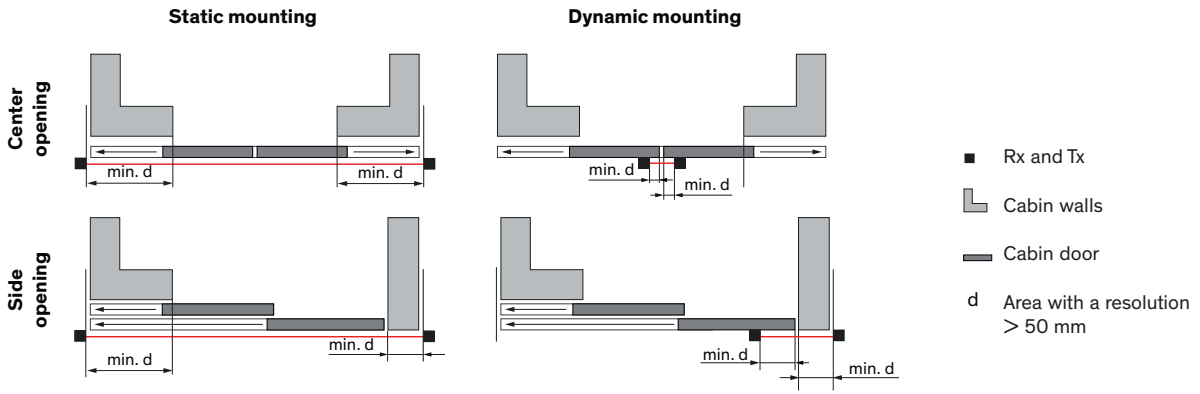


PNP / NPN output

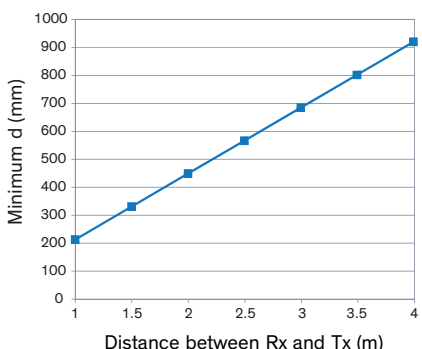


EN 81-20 light curtain - mounting requirements

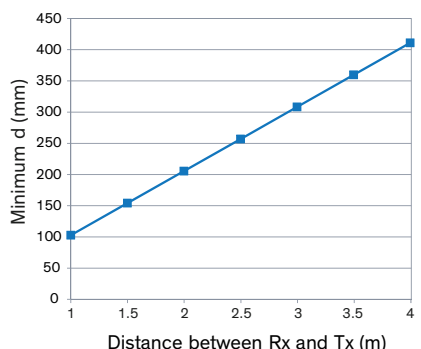
EN 81-20 requires a detection capability of 50 mm up to a height of 1,600 mm of the door opening. CEDES offers three light curtains which fulfill this requirement in different installation situations. The light curtain with 36 elements achieves a 50 mm resolution even at a distance of „0 mm“ between the two edges. The light curtains with 20 and 32 elements must be installed recessed according to the minimum distance ‚d‘ to the door opening or to the front edge of the door as shown below.



Mounting position (20 elements)
 Static installation only



Mounting position (32 elements)
 Static and dynamic installation



Mounting position (36 elements)
 Static and dynamic installation

No restrictions regarding the mounting positions of the light curtain are in place.