

cegard/Mini-CC

Technical data

FEATURES

- ▶ Meets all requirements under EN 81-20
- ▶ Criss-cross beams remain active up to complete door closure
- ▶ Ideal for both static and dynamic applications
- ▶ 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 MiniMax and cegard/Max light curtains



OPTICAL

Operating range	0 ... 4 m	
Protection height	20 elements	1,620 mm
	33 elements	1,607 mm
	36 elements	1,600 mm
No. of optical elements	20 / 33 / 36	
No. of beams	20 elements	94 beams
	33 elements	159 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	-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
	33 elements	110 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
Plug color	White
Wires	AWG26
• brown	U_{Sp}
• blue	GND (0 V)
• black	Not used
• white	Not used

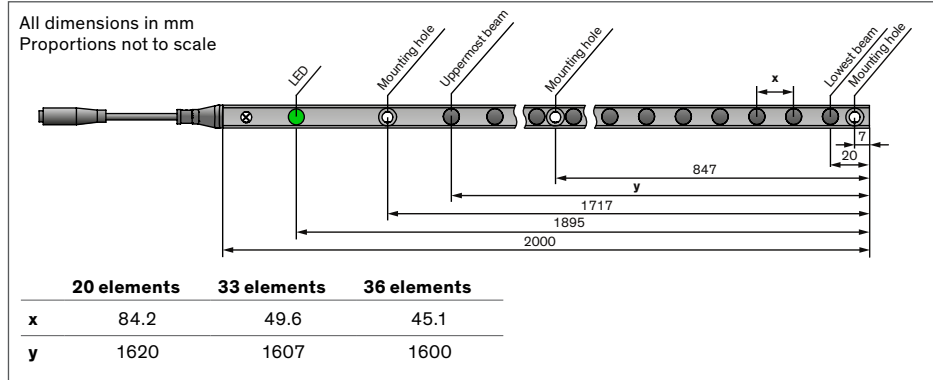
Receiver

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

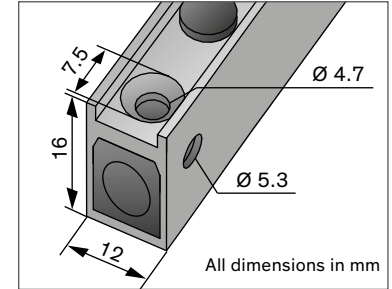


CEDES AG is certified according to ISO 9001: 2015.

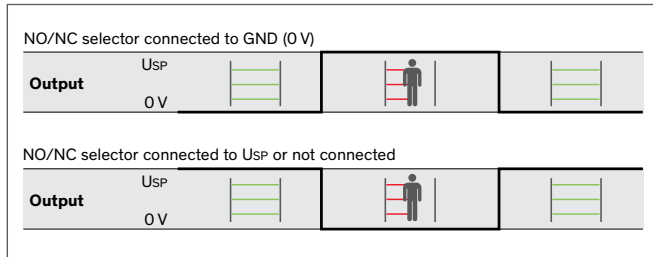
Dimensions



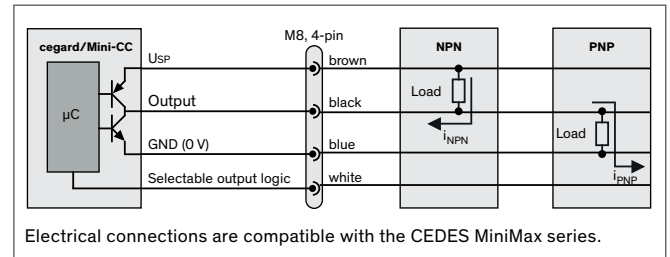
Detailed view



Selectable output logic



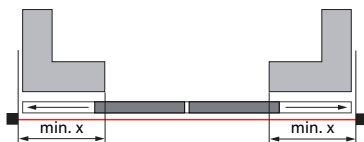
PNP / NPN output



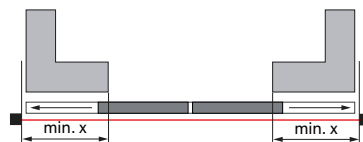
EN 81-20 light curtain selector

EN 81-20 requires a detection capability of 50 mm over the whole door entrance area. CEDES offers three light curtains which fulfill this requirement in different installation situations. The 36 element light curtain achieves a 50 mm resolution over its entire detection range. The 20 and 33 element light curtains have to be mounted recessed considering the below shown minimum distance 'x' to the door opening respectively the leading edge.

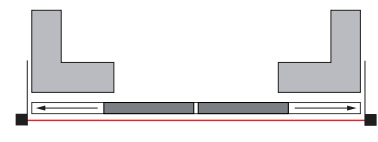
20 element system



33 element system

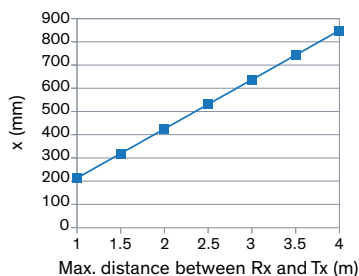


36 element system

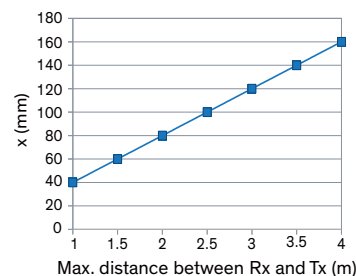


- Rx and Tx
- ▤ Cabin walls
- ▬ Cabin door
- x Area with a resolution > 50 mm

Mounting position



Mounting position



Mounting position

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