

MiniMax -79/159

Technical data

FEATURES

- ▶ Criss-cross beams remain active up to complete door closure
- ▶ Ideal for dynamic applications
- ▶ Integrated controller
- ▶ Densely monitored area with 79 or 159 beams
- ▶ Short-circuit-proof semiconductor-output PNP/NPN (Push-Pull)
- ▶ Longer-life optical elements thanks to intelligent self-calibration
- ▶ High-quality gold contacts
- ▶ Compact and robust design
- ▶ Edge can be front or side mounted – mounting holes are compatible with the cegard/Mini light curtains



OPTICAL

Operating range	0 ... 3 m
Protection height	1,800 mm
No. of optical elements	17 / 33
No. of beams:	
at 17 elements	79
at 33 elements	159
Max. ambient light	75,000 Lux

MECHANICAL

Dimensions (w × h × l)	12 × 16 × max. 2,100 mm
Housing material	Polycarbonate
Enclosure rating	IP65
Temperature range	-20°C ... +60°C

ELECTRICAL

Supply voltage U _{Sp}	10 ... 30 VDC
Typ. current consumption at 24 VDC (without load)	100 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:	
at 17 elements	60 ms
at 33 elements	75 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

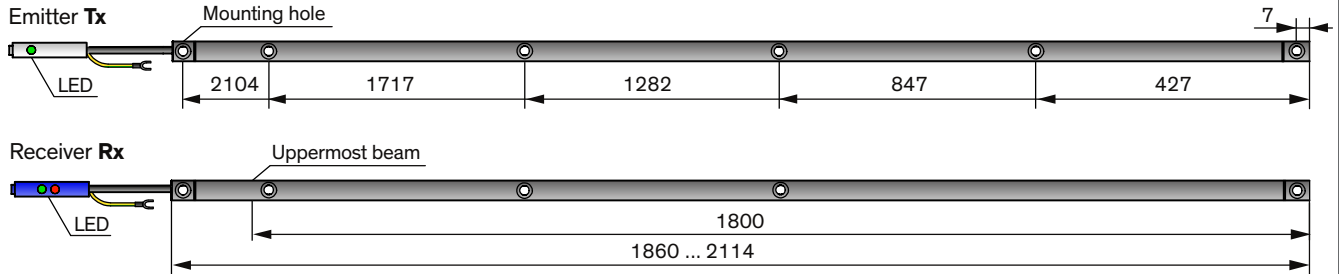
Cable length	5 m
Diameter	Ø 3.5 mm
Material	PVC, black
Connection	M8, 4-pin
Plug color	Blue
Wires	AWG26
• brown	U _{Sp}
• blue	GND (0 V)
• black	Output
• white	Selectable output logic



CEDES AG is certified according to ISO 9001: 2015.

Dimensions

All dimensions in mm
 Proportions not to scale



Selectable output logic

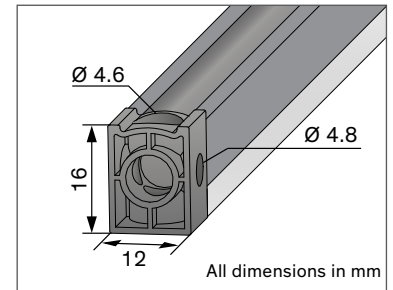
NO/NC selector connected to GND (0 V)



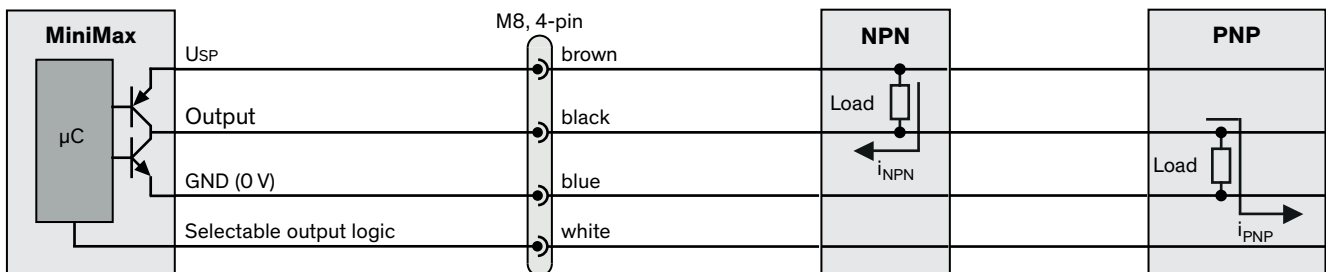
NO/NC selector connected to USP or not connected



Detailed view



PNP / NPN output



Electrical connections are compatible with the CEDES cegard/Mini series.

Applications

