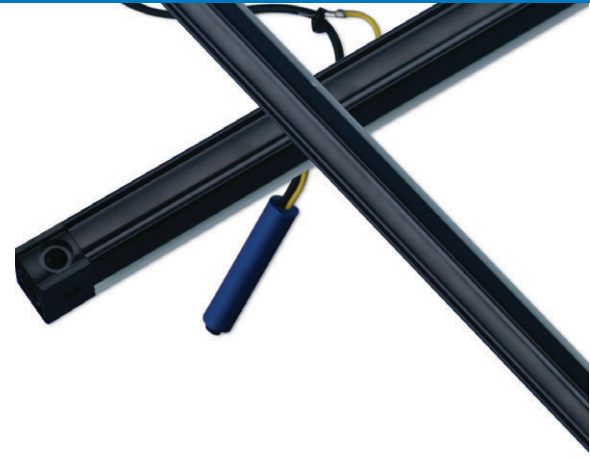


... criss-cross beams up to the moment the elevator doors close completely



ISO 9001: 2000

Features

- Perfect for new installations, ideal for dynamic applications yet also universally applicable
- Integrated controller
- Criss-cross light beams remain fully active until the doors are completely closed
- Short-circuit proof, variable semiconductor output (PNP / NPN)
- Intelligent self-calibration provides extended life-time for infrared LED
- High EMC tolerance
- High quality thanks to gold-plated contacts
- Developed for lifetime of over 20 years
- Very quick to install
- Compatible with cegard/Max and cegard/Mini
- Robust and compact design
- Opto edge length can be customized

Technical data

Optical

Operating range	0 ... 3 m
Protection height	1'800 mm
No. of elements	17, 33
No. of beams	Max. 159
Max. ambient light	>75,000 Lux

Cables

Tx:	Rx:
Ø 3,5 mm	Ø 3,5 mm
Black	Black
5 m	5 m
Connection plug, M8 color-coded PVC	Connection plug, M8 color-coded PVC

Electrical

Supply voltage U_{SP}	10 ... 30 VDC
Current consumption	< 100 mA @ 24 V
Output	U_{SP} , GND
Output logic	Selectable NO / NC
Output load	Max. 120 mA
Response time	60 ms (17 elements)

Electrical connections

Tx cable:	Rx cable:
+10 ... 30 VDC brown	+10 ... 30 VDC brown
GND (0 V) blue	GND (0 V) blue
	Output black
	Output Logic white

Mechanical

Dimensions (variable length)	12 x 16 x 2,100 mm
Cable length	5 m
Connection plug	M8 color-coded
Enclosure rating	IP65
Temperature range	-20 ... +65°C

General

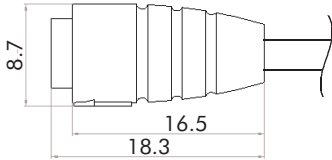
Safety category	EN 954-1, Cat. B
Certificates	CE, CSA, ISO 9001: 2000
Standard	EN 81-70

DATASHEET

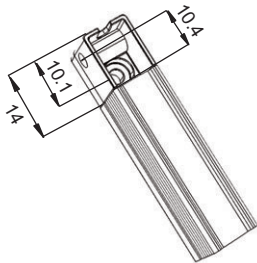
Opto edges

Pictured beam array:
MiniMax, 79 beams / 17 elements
(optional 159 beams / 33 elements)

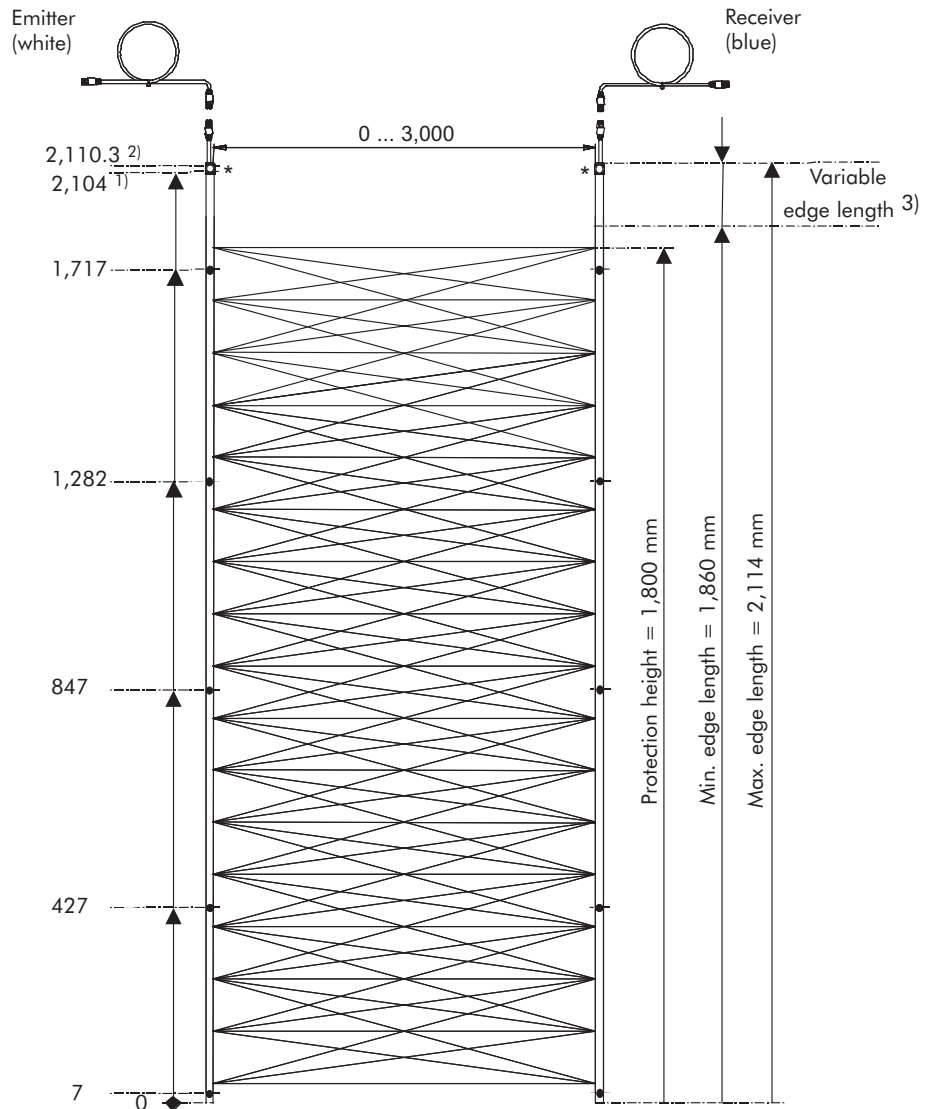
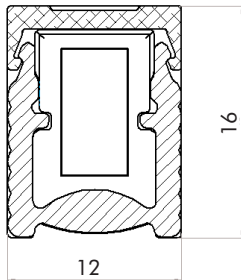
Connector M8



Dimensions of the top fixing part:



Cross section



- 1) = Location for side mounting
- 2) = Location for front mounting
- 3) = Edge length can be adjusted individually between min. and max. edge length
- * top fixing part
- Mounting holes are equal for MiniMax-79/159

(All Dimensions in mm)

Ordering information

Part Nr.	Type	Description
103 872	MiniMax-79B	Emitter and receiver edge, 17 elements, 79 beams, cable 5 m, output NPN / PNP, NO / NC, with blanking
104 384	MiniMax-79NB	Emitter and receiver edge, 17 elements, 79 beams, cable 5 m, output NPN / PNP, NO / NC, without blanking
104 385	MiniMax-159B	Emitter and receiver edge, 33 elements, 159 beams, cable 5 m, output NPN / PNP, NO / NC, with blanking
103 874	MiniMax-159NB	Emitter and receiver edge, 33 elements, 159 beams, cable 5 m, output NPN / PNP, NO / NC, without blanking

Other configurations on demand