

# Safety Light Curtains

## Finger resolution SB4E-14 Series

CARLO GAVAZZI



- Safety Category 4
- Resolution 14 mm (finger)
- Protected height 161-1190 mm
- External Device Monitoring (EDM)
- Auto/Manual Restart selectable
- Status/Failure diagnosis by LED's
- Easy alignment and installation
- Compact profile
- Approvals: TÜV, cULus

### Product Description

Safety category 4 light curtains according to IEC 61496-1 and IEC 61496-2. The SB4E-14 series, is featured by finger resolution and is provided with External Device Monitoring which allows to utilize these light

curtains without external safety control unit. The dip-switches placed in the slot provided in the receiving unit allow quick and safe configuration

### Ordering Key

**SB4E-14/161-D6**

Safety Light Curtains \_\_\_\_\_  
Safety Category \_\_\_\_\_  
Version \_\_\_\_\_  
Resolution \_\_\_\_\_  
Protected height \_\_\_\_\_  
Operating distance \_\_\_\_\_

### Type Selection

Protected height	Overhall height (mm)	Number of beams	Response time (ms)	Ordering no.
161	256	21	14	SB4E-14/161-D6
308	403	42	18	SB4E-14/308-D6
455	550	63	22	SB4E-14/455-D6
602	697	84	26	SB4E-14/602-D6
749	844	105	30	SB4E-14/749-D6
896	991	126	34	SB4E-14/896-D6
1043	1138	147	38	SB4E-14/1043-D6
1190	1285	168	41	SB4E-14/1190-D6

### General Specifications

Safety category	type 4	Functions	EDM, Automatic/manual restart
Operating distance	0,2.....6 m		
Resolution	14 mm		

### Electrical Specifications

Power supply	24 Vdc $\pm$ 20%	Light emission	Infrared (880 nm)
Emitter consumption	55 mA max	Output function	2 PNP
Receiver consumption	125 mA max ( no load)	Output current	0.5 A max (single output)



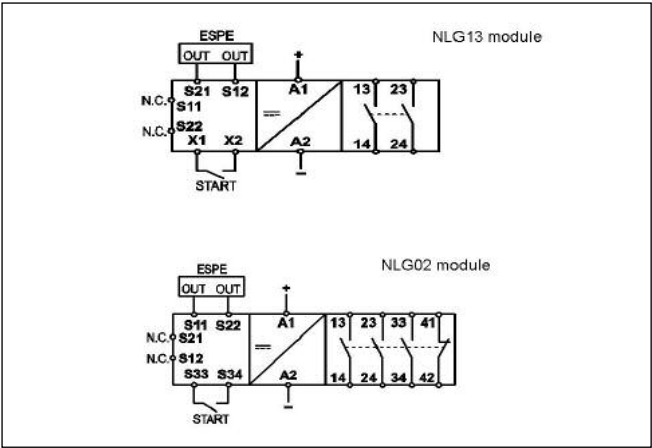
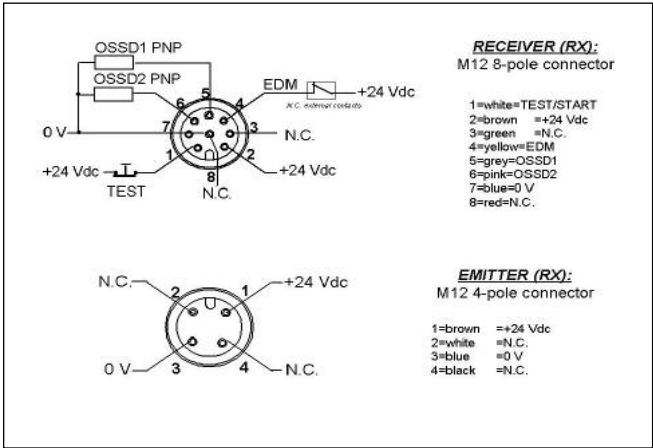
Environmental Specifications

Operating temperature	-10 ÷ + 55°C	Storage temperature	-25 ÷ + 70°C
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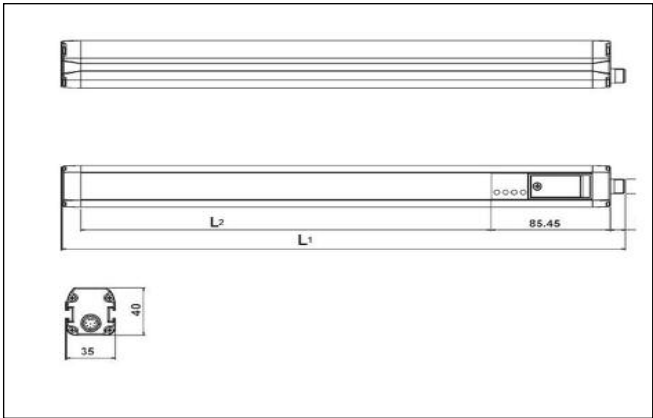
Mechanical Specifications

Receiver connection	M 12 8-poles Standard cable length 3, 5 or 10 m	Protection degree	IP 65
Emitter connection	M 12 4-poles connector Standard cable length 3, 5 or 10 m	Housing material	Painted aluminium (yellow Ral 1003)
		Weight	1.2 Kg max/m of total height

Wiring Diagrams



Dimensions



MODELL	L1 (mm)	L2 (mm)
SB4y-14/161-D6	256	147
SB4y-14/308-D6	403	294
SB4y-14/455-D6	550	441
SB4y-14/602-D6	697	588
SB4y-14/749-D6	844	735
SB4y-14/896-D6	991	882
SB4y-14/1043-D6	1138	1029
SB4y-14/1190-D6	1285	1176