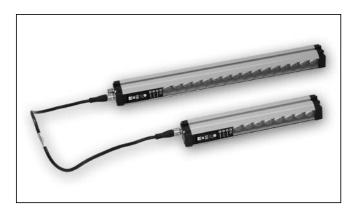
Safety Light Curtains Finger resolution SB4M-14 Series





- Safety Category 4
- Resolution 14 mm (finger)
- Protected height 161-1190 mm
- External Device Monitoring (EDM)
- Fixed Blanking and Floating Blanking
- Cascade configuration
- 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 SB4M-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 Blanking function -Fixed or Floating mode selectable - is used in those applications where material passage or mechanical obstacle presence must not cause machine interruption. The cascade connection allows to combine the functioning of two light curtains-

different positions.
The dip-switches placed in the slot provided in the receiving unit allow quick and safe configuration.

master and slave- placed in

Ordering Key

SB4M-14/161-D6

Safety Light Curtains Safety Category Version	
Resolution	
Protected height	
Operating distance	

Type Selection

Protected height	Overall height (mm)	Number of beams	Response time (ms) (Master)	Ordering no. Master	Ordering no. Slave
161	 256	21	21	SB4M-14/161-D6	SB4N-14/161-D6
308	403	42	28	SB4M-14/308-D6	SB4N-14/308-D6
455	550	63	35	SB4M-14/455-D6	SB4N-14/455-D6
602	697	84	41	SB4M-14/602-D6	SB4N-14/602-D6
749	844	105	48	SB4M-14/749-D6	SB4N-14/749-D6
896	991	126	55	SB4M-14/896-D6	SB4N-14/896-D6
1043	1138	147	62	SB4M-14/1043-D6	SB4N-14/1043-D6
1190	1285	168	68	SB4M-14/1190-D6	SB4N-14/1190-D6

General Specifications

Safety category	type 4	Functions (Master unit)	EDM, fixed/floating
Operating distance	0,26 m		BLANKING, CASCADE
Resolution	14 mm		Automatic/manual restart

Electrical Specifications

Power supply	24 Vdc ± 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)



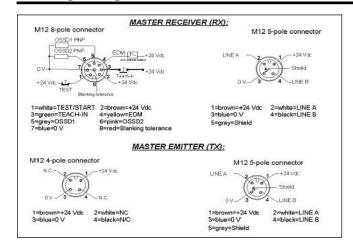
Environmental Specifications

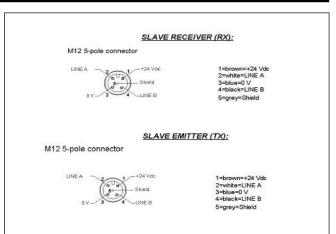
Operating temperature	-10 ÷ + 55°C	Storage temperature	-25 ÷ + 70°C

Mechanical Specifications

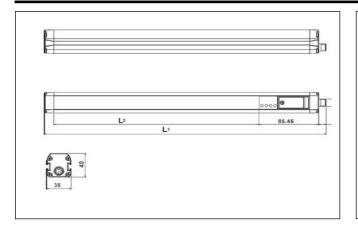
Receiver connection	M12 8-poles Standard	Protection degree	IP 65
	cable length 3, 5 or 10 m	Housing material	Painted aluminium
Emitter connection	M12 4-poles Standard		(yellow Ral 1003)
	cable length 3, 5 or 10 m	Weight	1.2 Kg max/m of total height
Master/Slave connection	M12 5-poles Standard cable length 0,5 m (included in slave unit package)	ū	

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	1295	1176
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0M/ Blanking/Cascade versions		