

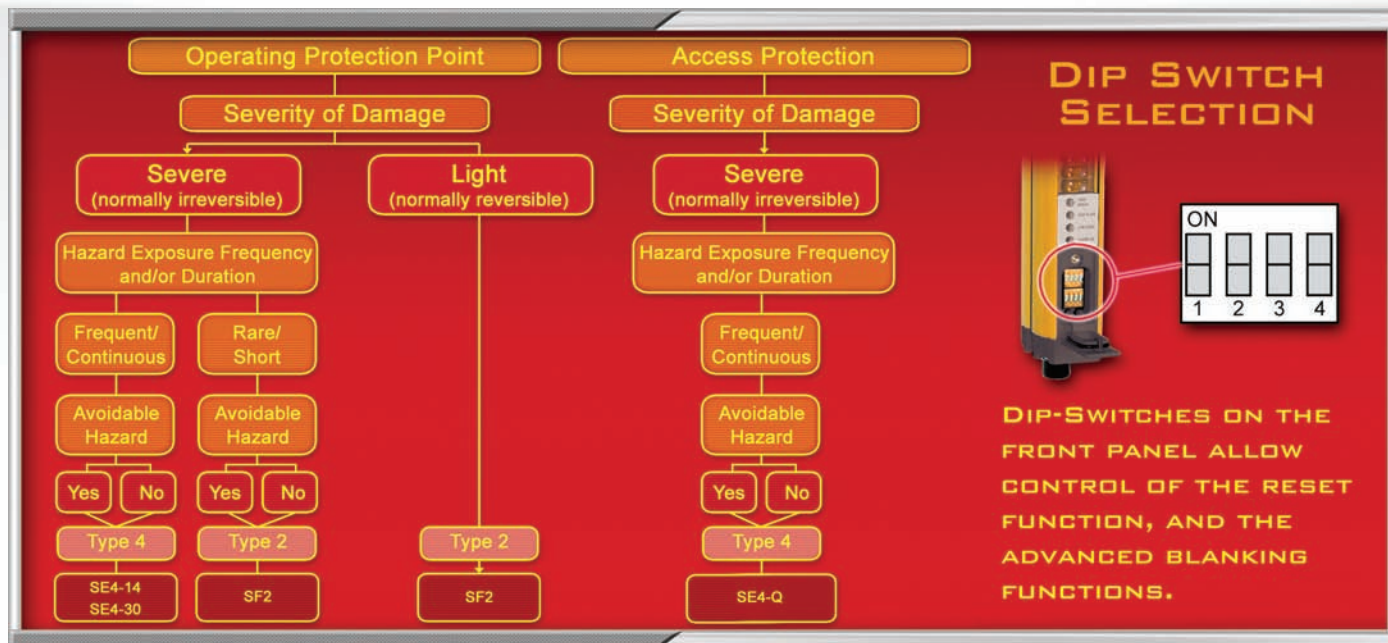
HTM electronics

SAFETY LIGHT CURTAINS

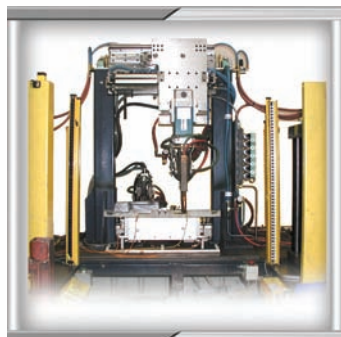


WWW.HTM-SENSORS.COM

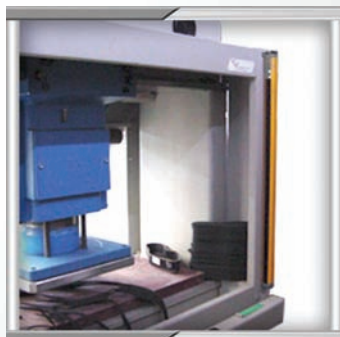
LIGHT CURTAIN SELECTION GUIDE



APPLICATIONS



LINKED SETS OF LIGHT CURTAINS ON RIVET MACHINE



OPERATOR HAND PROTECTION ON PRESS FIXTURE



OPERATOR FINGER PROTECTION IN PAPER SORTING MACHINES



HAND PROTECTION FOR PRESS OPERATION



ACCESS PROTECTION IN MATERIAL UNLOADING AREA



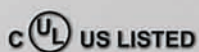
FINGER PROTECTION ON CLOTH PRESSING AND GREASING MACHINE



ZONE PROTECTION FOR PROCESSING MACHINERY



HAND PROTECTION FOR AUTOMATED SORTING MACHINE



SE4 ADVANCED SERIES

SAFETY CATEGORY 4 / FINGER-HAND PROTECTION

 SE4-14	SE4-14 Advanced FINGER PROTECTION 14mm / 0.55 in. Resolution SE4-30 Advanced HAND PROTECTION 30mm / 1.18 in. Resolution * External Device Monitoring * Fixed Blanking * Floating Blanking * Cascade Configuration	 SE4-30
--	--	--

The **EDM** function constantly checks the status of external monitoring devices such as safety relays, and avoids many external malfunctions which could cause incorrect device functioning.

Fixed Blanking allows the operator to deactivate a part of the detection area during functioning to allow the passage of material or mechanical obstacle presence without causing machine interruption.

Floating Blanking allows the operator to exclude the control of a pre-set number of beams in any position within the detection area.

Cascade Configuration allows two sets of light curtains to function connected to each other in a Master-Slave protocol while combining the safety information relative to the two different sections of the controlled machine. The Master unit has a Blanking function and can be used without the Slave.

Specific dip-switches allow for quick and easy set-up and operation. The dip-switches can be accessed through a panel on the front of the active unit and is protected by a cover that can be opened easily with a screwdriver.

DIP SWITCH FUNCTIONS

Dip Switch Diagram	Dip 1	Dip 2	Dip 3	Dip 4	Function
	ON	ON	ON : EDM inactive OFF : EDM active	ON : Automatic OFF : Manual/Reset	Floating function active
	ON	OFF			Floating function active, 1 Blanking beam.
	OFF	ON			Floating function active, 2 adjacent Blanking beams.
	OFF	OFF			Floating function active, 1, 2 or 3 adjacent Blanking beams.

SE4-30 ADVANCED SERIES

SAFETY CATEGORY 4 / HAND PROTECTION



SE4-30 Blanking Masters

HAND PROTECTION

30mm / 1.18 in. Resolution

- * Category 4 Safety light curtains with advanced features
- * Fixed or Floating Channel blanking controlled with DIP switches on the front panel
- * Cascading feature allows for connection of 2 light curtains together with one safety relay.

SELECTION & ORDERING INFORMATION TABLE

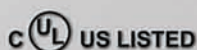
SE4-30 Series - EDM, Master Blanking					
4-POLE M12 CONNECTOR 1 = brown = +24 VDC 2 = white = N.C. 3 = blue = 0 V 4 = black = N.C.	Model	Beams	Protective Height	Response Time	8-POLE M12 CONNECTOR 1 = white = TEST/START 2 = brown = +24 VDC 3 = green = TEACH-IN 4 = yellow = EDM 5 = grey = OSSD1 6 = pink = OSSD2 7 = blue = 0 V 8 = red = BLANKING TOLERANCE
	SE4-30-015-PP-N	8	180mm (7.09 in.)	16ms	
	SE4-30-030-PP-N	16	327mm (12.87 in.)	20ms	
	SE4-30-045-PP-N	24	474mm (18.66 in.)	23ms	
	SE4-30-060-PP-N	32	621mm (24.45 in.)	25ms	
	SE4-30-075-PP-N	40	768mm (30.24 in.)	27ms	
	SE4-30-090-PP-N	48	915mm (36.02 in.)	30ms	
	SE4-30-105-PP-N	56	1062mm (41.81 in.)	32ms	
	SE4-30-120-PP-N	64	1209mm (47.60 in.)	35ms	
	SE4-30-135-PP-N	72	1356mm (53.39 in.)	38ms	
	SE4-30-150-PP-N	80	1503mm (59.17 in.)	40ms	
	SE4-30-165-PP-N	88	1650mm (64.96 in.)	43ms	
Emitter					Receiver

DIMENSIONS

Technical drawing of the SE4-30 sensor. The top view shows a long cylindrical body with a threaded end. Dimensions are indicated: L^1 is the total length, L^2 is the length of the main body, 3.36 in. (85.45 mm) is the length of the main body, 0.425 in. (10.8 mm) is the length of the threaded section, and M12x1 is the thread specification. The bottom view shows the sensor from the side, highlighting the mounting bracket.

Technical drawing of the SE4-30 sensor showing a top view. The dimensions are 1.57 in. (40 mm) for the width and 1.37 in. (35 mm) for the depth.

Part #	L ¹	L ²
SE4-30-015-PP-Y	256	147
SE4-30-030-PP-Y	403	294
SE4-30-045-PP-Y	550	441
SE4-30-060-PP-Y	697	588
SE4-30-075-PP-Y	844	735
SE4-30-090-PP-Y	991	882
SE4-30-105-PP-Y	1138	1029
SE4-30-120-PP-Y	1285	1176
SE4-30-135-PP-Y	1432	1323
SE4-30-150-PP-Y	1579	1470
SE4-30-165-PP-Y	1726	1617



SE4-30 ADVANCED SERIES

SAFETY CATEGORY 4 / HAND PROTECTION



SE4-30 Blanking Slaves

HAND PROTECTION

30mm / 1.18 in. Resolution

Slave units are connected to Master units via a 5-pin double ended cable. There are 2 connectors on the master unit, one for normal operation, and one for connection to the slave.

- * 0.5m connection cables are included with slave units
- * Cascading feature allows connection to a master with only one safety relay

SELECTION & ORDERING INFORMATION TABLE

SE4-30 Series - Slave

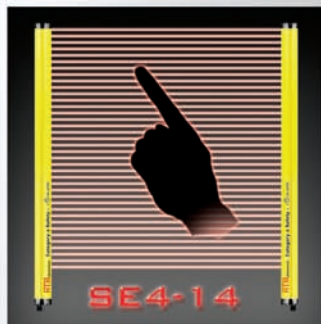
5-POLE M12 CONNECTOR 1 = brown = +24 VDC 2 = white = LINE A 3 = blue = 0 V 4 = black = LINE B 5 = grey = SHIELD	Model	Beams	Protective Height	Response Time	5-POLE M12 CONNECTOR 1 = brown = +24 VDC 2 = white = LINE A 3 = blue = 0 V 4 = black = LINE B 5 = grey = SHIELD
	SE4-30-015-PP-S	8	180mm (7.09 in.)	16ms	
	SE4-30-030-PP-S	16	327mm (12.87 in.)	20ms	
	SE4-30-045-PP-S	24	474mm (18.66 in.)	23ms	
	SE4-30-060-PP-S	32	621mm (24.45 in.)	25ms	
	SE4-30-075-PP-S	40	768mm (30.24 in.)	27ms	
	SE4-30-090-PP-S	48	915mm (36.02 in.)	30ms	
	SE4-30-105-PP-S	56	1062mm (41.81 in.)	32ms	
	SE4-30-120-PP-S	64	1209mm (47.60 in.)	35ms	
	SE4-30-135-PP-S	72	1356mm (53.39 in.)	38ms	
Emitter	SE4-30-150-PP-S	80	1503mm (59.17 in.)	40ms	Receiver
	SE4-30-165-PP-S	88	1650mm (64.96 in.)	43ms	

DIMENSIONS

	Part #	L ¹	L ²
	SE4-30-015-PP-Y	256	147
	SE4-30-030-PP-Y	403	294
	SE4-30-045-PP-Y	550	441
	SE4-30-060-PP-Y	697	588
	SE4-30-075-PP-Y	844	735
	SE4-30-090-PP-Y	991	882
	SE4-30-105-PP-Y	1138	1029
	SE4-30-120-PP-Y	1285	1176
	SE4-30-135-PP-Y	1432	1323
	SE4-30-150-PP-Y	1579	1470
	SE4-30-165-PP-Y	1726	1617

SE4-14 ADVANCED SERIES

SAFETY CATEGORY 4 / FINGER PROTECTION



SE4-14 Blanking Masters

FINGER PROTECTION

14mm / 0.55 in. Resolution

- * Category 4 Safety light curtains with advanced features
- * Channel blanking and re-set functions are controlled with DIP switches on the front panel
- * Cascading feature allows for connection of 2 light curtains together with one safety relay

SELECTION & ORDERING INFORMATION TABLE

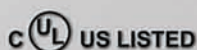
SE4-14 Series - EDM, Master Blanking					
4-POLE M12 CONNECTOR 1 = brown = +24 VDC 2 = white = N.C. 3 = blue = 0 V 4 = black = N.C.	Model	Beams	Protective Height	Response Time	8-POLE M12 CONNECTOR 1 = white = TEST/START 2 = brown = +24 VDC 3 = green = TEACH-IN 4 = yellow = EDM 5 = grey = OSSD1 6 = pink = OSSD2 7 = blue = 0 V 8 = red = BLANKING TOLERANCE
	SE4-14-015-PP-N	21	161mm (6.34 in.)	21ms	
	SE4-14-030-PP-N	42	308mm (12.13 in.)	28ms	
	SE4-14-045-PP-N	63	455mm (17.91 in.)	35ms	
	SE4-14-060-PP-N	84	602mm (23.70 in.)	41ms	
	SE4-14-075-PP-N	105	749mm (29.49 in.)	48ms	
	SE4-14-090-PP-N	126	896mm (35.28 in.)	55ms	
	SE4-14-105-PP-N	147	1043mm (41.06 in.)	62ms	
	SE4-14-120-PP-N	168	1190mm (46.85 in.)	68ms	
Emitter					Receiver

DIMENSIONS

Technical drawing of the SE4-14 device showing side and front views with dimensions:

- Side View (Top):**
 - Overall length: L^1
 - Length to mounting holes: L^2
 - Distance between mounting holes: 3.36 in. (85.45 mm)
 - Mounting hole diameter: 0.425 in. (10.8 mm)
 - Thread specification: M12x1
- Side View (Bottom):** A simplified side view of the device.
- Front View:**
 - Overall width: 1.37 in. (35 mm)
 - Mounting hole diameter: 1.57 in. (40 mm)

Part #	L^1	L^2
SE4-14-015-PP-Y	256	147
SE4-14-030-PP-Y	403	294
SE4-14-045-PP-Y	550	441
SE4-14-060-PP-Y	697	588
SE4-14-075-PP-Y	844	735
SE4-14-090-PP-Y	991	882
SE4-14-105-PP-Y	1138	1029
SE4-14-120-PP-Y	1285	1176



SE4-14 ADVANCED SERIES

SAFETY CATEGORY 4 / FINGER PROTECTION



SE4-14 Blanking Slaves

FINGER PROTECTION

14mm / 0.55 in. Resolution

Slave units are connected to Master units via a 5-pin double ended cable. There are 2 connectors on the master unit, one for normal operation, and one for connection to the slave.

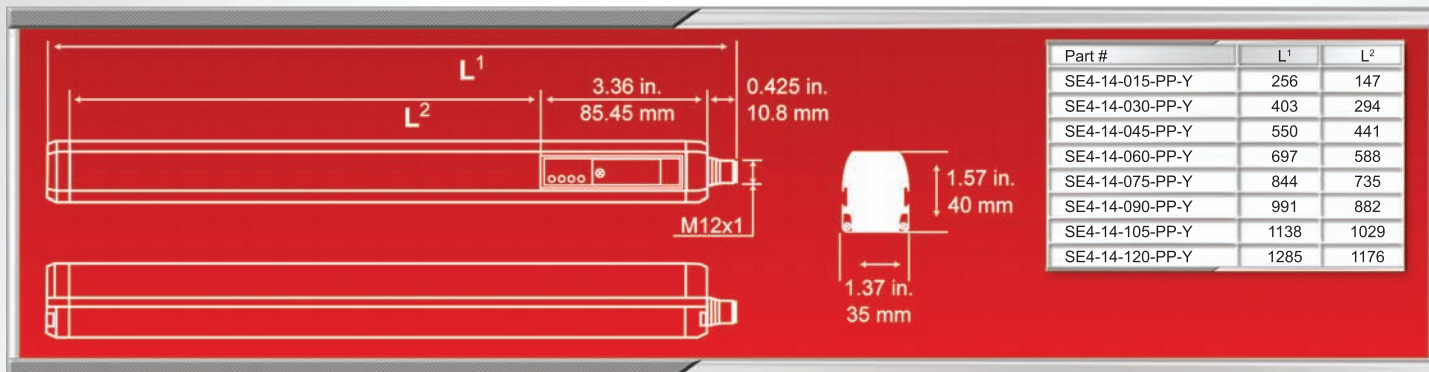
- * 0.5m connection cables are included with slave units
- * Cascading feature allows connection to a master with only one safety relay

SELECTION & ORDERING INFORMATION TABLE

SE4-14 Series - Slave

5-POLE M12 CONNECTOR 1 = brown = +24 VDC 2 = white = LINE A 3 = blue = 0 V 4 = black = LINE B 5 = grey = SHIELD	Model	Beams	Protective Height	Response Time	5-POLE M12 CONNECTOR 1 = brown = +24 VDC 2 = white = LINE A 3 = blue = 0 V 4 = black = LINE B 5 = grey = SHIELD
	SE4-14-015-PP-S	21	161mm (6.34 in.)	21ms	
	SE4-14-030-PP-S	42	308mm (12.13 in.)	28ms	
	SE4-14-045-PP-S	63	455mm (17.91 in.)	35ms	
	SE4-14-060-PP-S	84	602mm (23.70 in.)	41ms	
	SE4-14-075-PP-S	105	749mm (29.49 in.)	48ms	
	SE4-14-090-PP-S	126	896mm (35.28 in.)	55ms	
	SE4-14-105-PP-S	147	1043mm (41.06 in.)	62ms	
Emitter	SE4-14-120-PP-S	168	1190mm (46.85 in.)	68ms	Receiver

DIMENSIONS



SE4-30 STANDARD SERIES

SAFETY CATEGORY 4 / HAND PROTECTION



SE4-30 Standard Series

HAND PROTECTION
30mm / 1.18 in. Resolution

- * Economical Category 4 Safety Light Curtains
- * Simple side rail mounting system for easy set-up
- * Simple wiring to a safety relay

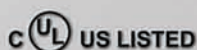
SELECTION & ORDERING INFORMATION TABLE

SE4-30 Series - EDM (External Device Monitoring)

4-POLE M12 CONNECTOR 1 = brown = +24 VDC 2 = white = N.C. 3 = blue = 0 V 4 = black = N.C.	Model	Beams	Protective Height	Response Time	8-POLE M12 CONNECTOR 1 = white = TEST/START 2 = brown = +24 VDC 3 = green = +24 VDC 4 = yellow = EDM 5 = grey = OSSD1 6 = pink = OSSD2 7 = blue = 0 V 8 = red = Not Connected
	SE4-30-015-PP-E	8	180mm (7.09 in.)	16ms	
	SE4-30-030-PP-E	16	327mm (12.87 in.)	20ms	
	SE4-30-045-PP-E	24	474mm (18.66 in.)	23ms	
	SE4-30-060-PP-E	32	621mm (24.45 in.)	25ms	
	SE4-30-075-PP-E	40	768mm (30.24 in.)	27ms	
	SE4-30-090-PP-E	48	915mm (36.02 in.)	30ms	
	SE4-30-105-PP-E	56	1062mm (41.81 in.)	32ms	
	SE4-30-120-PP-E	64	1209mm (47.60 in.)	35ms	
	SE4-30-135-PP-E	72	1356mm (53.39 in.)	38ms	
	SE4-30-150-PP-E	80	1503mm (59.17 in.)	40ms	
Emitter	SE4-30-165-PP-E	88	1650mm (64.96 in.)	43ms	Receiver

DIMENSIONS

	Part #	L ¹	L ²
	SE4-14-015-PP-Y	256	147
	SE4-14-030-PP-Y	403	294
	SE4-14-045-PP-Y	550	441
	SE4-14-060-PP-Y	697	588
	SE4-14-075-PP-Y	844	735
	SE4-14-090-PP-Y	991	882
	SE4-14-105-PP-Y	1138	1029
	SE4-14-120-PP-Y	1285	1176



SE4-14 STANDARD SERIES

SAFETY CATEGORY 4 / FINGER PROTECTION



SE4-14 Standard Series

FINGER PROTECTION

14mm / 0.55 in. Resolution

- * Economical Category 4 Safety Light Curtains
- * Simple side rail mounting system for easy set-up
- * Simple wiring to a safety relay

SELECTION & ORDERING INFORMATION TABLE

SE4-14 Series - EDM (External Device Monitoring)

4-POLE M12 CONNECTOR 1 = brown = +24 VDC 2 = white = N.C. 3 = blue = 0 V 4 = black = N.C.	Model	Beams	Protective Height	Response Time	8-POLE M12 CONNECTOR 1 = white = TEST/START 2 = brown = +24 VDC 3 = green = N.C. external contact 4 = yellow = +24 VDC 5 = grey = OSSD1 6 = pink = OSSD2 7 = blue = 0 V 8 = red = Not Connected
	SE4-14-015-PP-E	21	161mm (6.34 in.)	21ms	
	SE4-14-030-PP-E	42	308mm (12.13 in.)	28ms	
	SE4-14-045-PP-E	63	455mm (17.91 in.)	35ms	
	SE4-14-060-PP-E	84	602mm (23.70 in.)	41ms	
	SE4-14-075-PP-E	105	749mm (29.49 in.)	48ms	
	SE4-14-090-PP-E	126	896mm (35.28 in.)	55ms	
	SE4-14-105-PP-E	147	1043mm (41.06 in.)	62ms	
	SE4-14-120-PP-E	168	1190mm (46.85 in.)	68ms	
Emitter					Receiver

DIMENSIONS

Technical drawing of the SE4-14 safety light curtain. The side view shows two dimensions: L^1 (total length) and L^2 (length to the start of the cable). The cable length is 3.36 in. (85.45 mm). The mounting bracket height is 0.425 in. (10.8 mm). The mounting hole is M12x1. The front view shows a width of 1.37 in. (35 mm) and a depth of 1.57 in. (40 mm).

Part #	L^1	L^2
SE4-14-015-PP-Y	256	147
SE4-14-030-PP-Y	403	294
SE4-14-045-PP-Y	550	441
SE4-14-060-PP-Y	697	588
SE4-14-075-PP-Y	844	735
SE4-14-090-PP-Y	991	882
SE4-14-105-PP-Y	1138	1029
SE4-14-120-PP-Y	1285	1176



SE4-Q SERIES

SAFETY CATEGORY 4 / BODY PROTECTION



SE4-Q Series

BODY PROTECTION

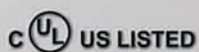
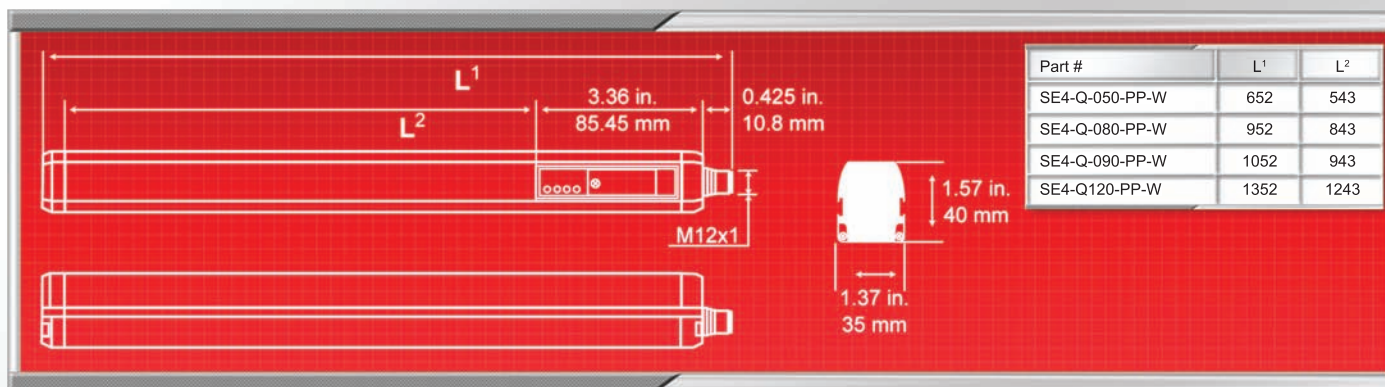
2, 3, or 4 Beam Models

- * Operating Distance up to 25m (82.02 feet)
- * 31mm X 32mm (1.22" X 1.25") Compact Profile
- * Auto / Manual / Reset Select
- * Optical Synchronizing

SELECTION & ORDERING INFORMATION TABLE

	Model	Beams	Protective Height	1st. Beam Installation Hgt.	
1 = TEST/START 5 = OUT 1 2 = + VDC 6 = OUT 2 3 = MUTING 1 7 = 0 V 4 = MUTING 2 8 = LAMP Use CV-A1-20-B-03 (3m) or CV-A1-20-B-10 (10m) Shielded Cable Receiver	SE4-Q2-050-PP-W	2	543mm (21.37 in.)	400mm	1 = brown = +24 VDC 3 = blue = 0 V Use CV-A1-20-B-03 (3m) or CV-A1-20-B-10 (10m) Shielded Cable Emitter
	SE4-Q3-080-PP-W	3	843mm (33.18 in.)	300mm	
	SE4-Q4-090-PP-W	4	943mm (37.13 in.)	300mm	
	SE4-Q4-120-PP-W	4	1243mm (48.93 in.)	300mm	

DIMENSIONS



SF2 SERIES

SAFETY CATEGORY 2 / HAND PROTECTION



SF2 Standard Series

HAND PROTECTION

30mm / 1.18 in. Resolution

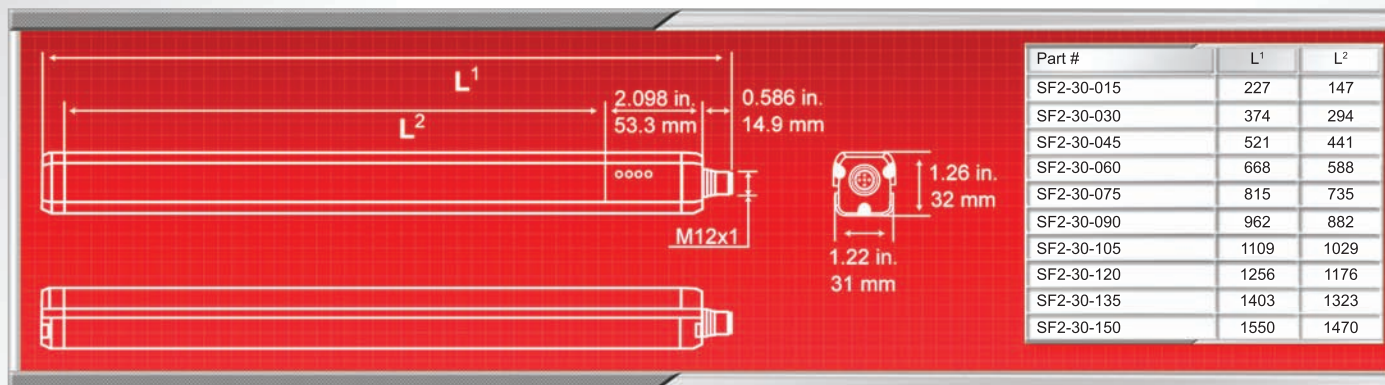
Inexpensive Safety Curtain for low risk situations, with reversible dangers. Please follow safety guidelines.

- * Operating Distance up to 15m (49 feet)
- * 31mm X 32mm (1.22" X 1.25") Compact Profile
- * Auto Reset
- * Optical Synchronizing

SELECTION & ORDERING INFORMATION TABLE

	Model	Beams	Protective Height	Response Time (ms)	
	SF2-30-015-PP-X	8	147mm (5.78 in.)	14	
	SF2-30-030-PP-X	16	294mm (11.57 in.)	15	
	SF2-30-045-PP-X	24	441mm (17.36 in.)	16	
	SF2-30-060-PP-X	32	588mm (23.15 in.)	17	
	SF2-30-075-PP-X	40	735mm (28.93 in.)	18	
	SF2-30-090-PP-X	48	882mm (34.72 in.)	19	
	SF2-30-105-PP-X	56	1029mm (40.51 in.)	20	
	SF2-30-120-PP-X	64	1176mm (46.30 in.)	22	
	SF2-30-135-PP-X	72	1323mm (52.09 in.)	23	
Receiver	SF2-30-150-PP-X	80	1470mm (57.87 in.)	24	Emitter

DIMENSIONS

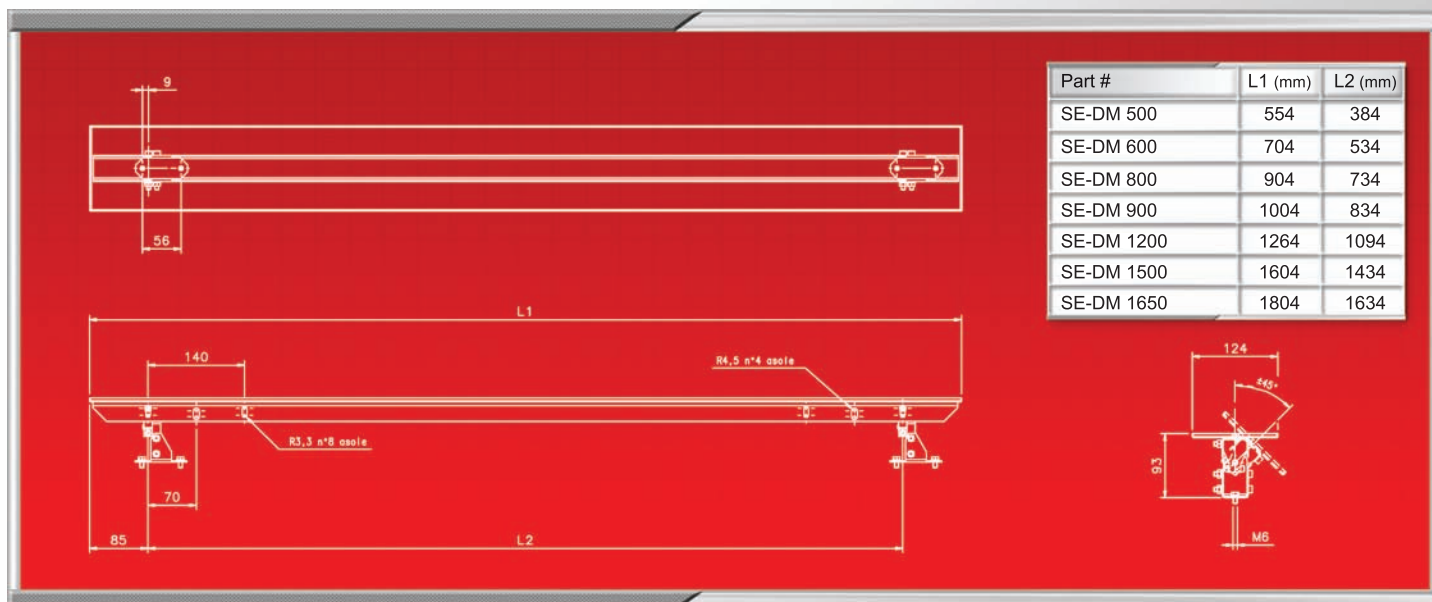


LIGHT CURTAIN ACCESSORIES

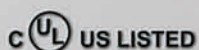
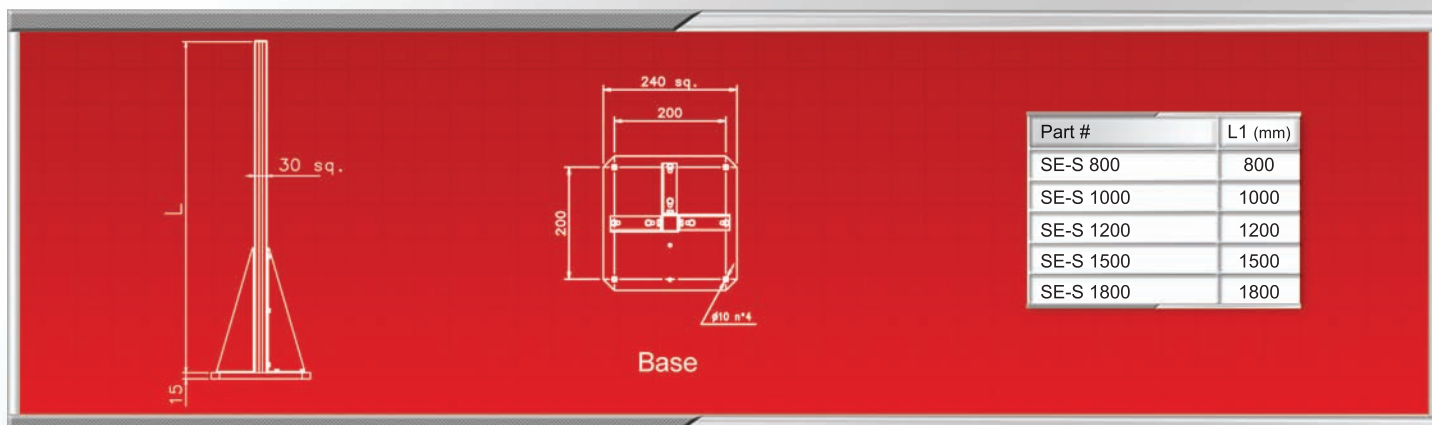
MIRRORS & STANDS

The deviating mirrors of the SE-DM series protect different sides of a machine and are available in several heights ranging from 150 mm to 1800 mm. The column and floor stands for safety light curtains and deviating mirrors are available with heights ranging from 800 mm to 1800 mm. The protective stands of the SE-P series, ideal to guarantee device protection against shocks, is also available in different heights ranging from 273 mm to 1743 mm. The SE-LP Series laser pointer makes alignment and installation of light curtains quick and easy, particularly for applications with long operating distances and / or when using deviating mirrors.

MIRROR DIMENSIONS & ORDERING INFORMATION



STAND DIMENSIONS & ORDERING INFORMATION



SE-LP SERIES LIGHT CURTAIN ALIGNMENT LASER POINTER

The laser pointer SE-LP is an attachment for the easy alignment and installation of the SE safety light curtain series. The pointer can be moved along the light curtain profile to verify the complete device alignment.



SHIELDED CABLES

The shielded cables of the CV series are made of oil resistant PUR, and are available with a straight or 90° connection.



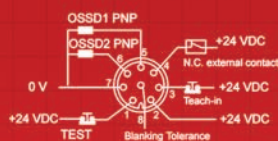
CABLE CONNECTIONS

Straight Models

CV-A1-20-B-03 (3 meter cable)

CV-A1-20-B-10 (10 meter cable)

8-pin straight



4-pin straight

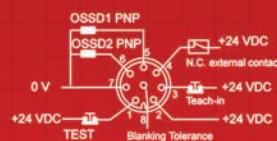


Right-Angle Models

CV-A1-20-B-03-R (3 meter cable)

CV-A1-20-B-10-R (10 meter cable)

8-pin right-angle



4-pin right-angle



5-pin to 5-pin Double-ended Cable for Slave Connection

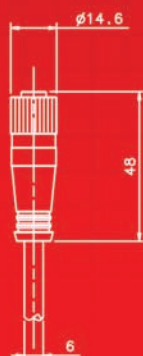
CV-A1-23-B-005 (0.5 meter cable)

CV-A1-23-B-01 (1 meter cable)

5-pin straight



5-pin straight



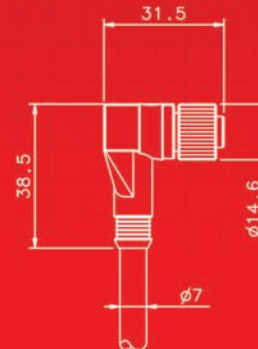
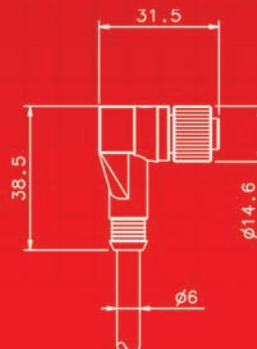
CV-A1-23-B-005-R (0.5 meter cable)

CV-A1-23-B-01-R (1 meter cable)

5-pin right-angle



5-pin right-angle



Other lengths and configurations are available, please contact customer service.

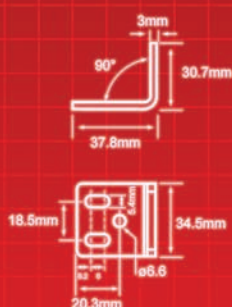
MOUNTING BRACKETS

The ST-KSTD model represents the spare part kit composed of 4 standard fixing brackets for SE safety light curtains.

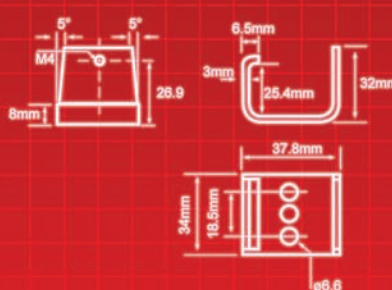
The ST-K*OR supports allow the orientation of the SE safety light curtains of $\pm 5^\circ$.

The ST-K*AV supports allow the absorption of the vibrations caused by the machinery where the SE and SF2 safety light curtains are installed.

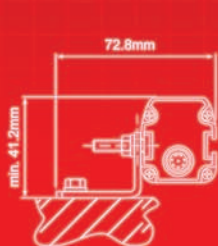
The ST-KSF2 model represents the anti-scratch brackets (kit composed of 4 brackets) for SF2 safety light curtains.



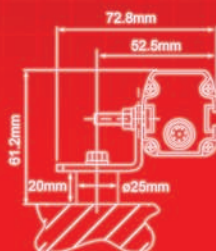
ST-KSTD series: standard fixing bracket.



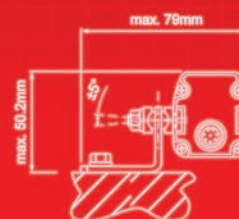
SF2 series: standard fixing bracket.



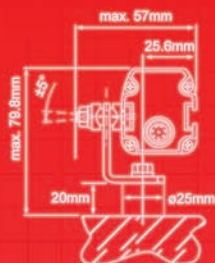
SE series: application with standard fixing bracket.



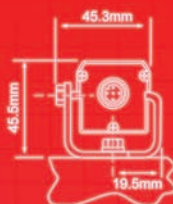
*SE series: application with standard fixing bracket and ST-K*AV anti-vibration support.*



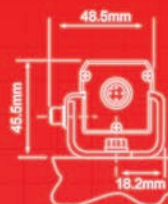
*SE series: application with standard fixing bracket and ST-K*OR orientable support.*



*SE series: application with standard fixing bracket, ST-K*AV anti-vibration support and ST-K*OR orientable support.*

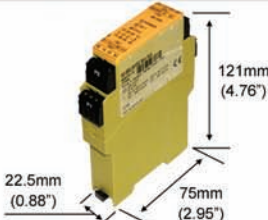


*SF2 series: application with standard fixing bracket. The standard fixing bracket is compatible with the SE standard bracket, ST-K*AV anti-vibration support and ST-K*OR orientable support.*



SF2 series: application with ST-KSF2 anti-scratch bracket.

TECHNICAL DATA

	SF2	SE4-14	SE4-30	SE4-Q
				
Safety Category	Type 2	Type 4		
Range	0.2...15m (0.656...49.21 ft.)	0.2...6m (0.656...19.69 ft.)	0.2...15m (0.656...49.21 ft.)	0.5...25m (1.64...82.02 ft.)
Resolution	30mm (1.18 in.)	14mm (0.551 in.)	30mm (1.18 in.)	Refer to SE4-Q model # chart (pg.6)
Power Supply	24 VDC ±20%			
Consumption	50mA max. / 1W (emitter) 90mA max. (without load) / 2.5W	55mA max. / 1.5W (emitter) 125mA max./3.75 W (receiver without load)	55mA max. / 1.5W (emitter) 125mA max./3.75 W (receiver without load)	70mA max. / 2.1W (emitter) 100mA max. / 3W (receiver without load)
Output Type	2 PNP Transistor			
Output Current	500mA max. per output	0.5 A max (0.7 A max. for SE4-Q) 0.25 A max. (45°C - 55°C) Short-circuit signaling and protection		
Mechanical Protection	IP65 (IP67 connector)			
Electrical Protection	Class 1			
Housing Material	Yellow aluminum with PMMA Lens and PBT or PC Makrolon End Caps			
Emitter Connection	M12, 4-pole connector			
Receiver Connection	M12, 5-pole connector	M12, 8-pole connector		
Emitter Indicators	Yellow: WORKING UNIT CHECK LED Green: POWER ON LED	Yellow blinking: FAILURE LED Green: POWER ON LED		
Receiver Indicators	2 Yellow: ALIGNMENT LEDs Red: BREAK LED Green: SAFE LED	Green / Red SAFE / BREAK LED 2 Yellow ALIGNMENT LEDs Green: POWER ON LED		
Receiver Inputs	Dip switches for test and start	Dip switches for re-set, blanking, test, teach and monitoring		
Optic Diameter	ø18mm (ø0.709 in.)	ø7mm (ø0.275 in.)	ø18.4mm (ø0.724 in.)	ø16mm (ø0.630 in.)
Light Emission	Infra red LED 880nm			
Cable Length	3m (9.8 ft.) or 10m (32.8 ft.) cable lengths (up to 50m max.) with 50nF capacitive load			
Weight	1 kg. max./m of total height	1.2 Kg. max./m of total height		
Operating Temperature	+14...+131°F (-10...+55°C)			
Storage Temperature	-13...+158°F (-25...+70°C)			
Reference Standard	EN 954-1, EN 61496-1, IEC 61496-2			
Safety Relay	 Model # SE-SR2 24 Volt Category 4 Safety Relay * 3 N/O Safety Contacts * 1 N/C Auxilliary * Auto or Manual Reset			



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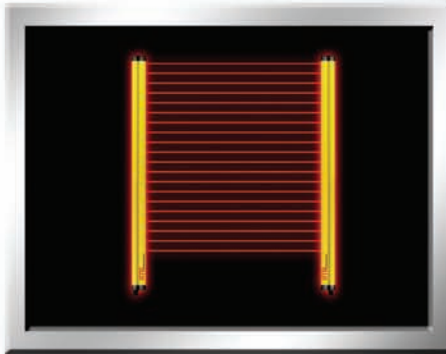
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SAFETY LIGHT CURTAINS



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Category 2 Safety
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Hand Protection (30mm)
Body Protection (Access)

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Polarized / Clear Object

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Push Button Set-up
Retro-reflective
Through Beam (50m)
Temperature Sensors

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