

LIGHT SCREENS

EZ-SCREEN® TYPE 4



14 or 30 mm
Resolution

Low-Profile
14 or 25 mm
Resolution

EZ-SCREEN® TYPE 2



30 mm Resolution

EZ-SCREEN® TYPE 4 Grids & Points



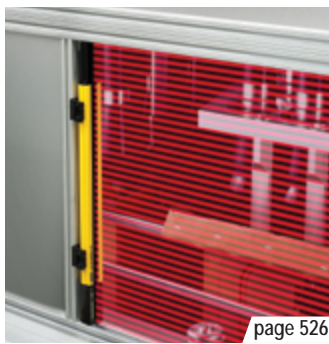
Grids & Points



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EZ-SCREEN® TYPE 4

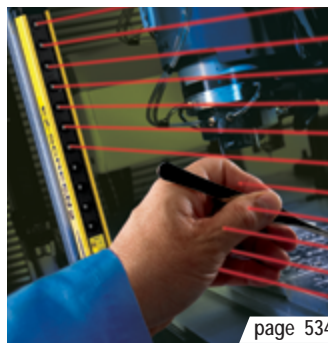
- Provides point-of-operation, area, access and perimeter safeguarding
- Offered in a standard housing with 14 & 30 mm resolution options
- Reduced resolution and fixed blanking
- External Device Monitoring (EDM) ensures that a controller or "third box" is not required
- Easily understood advanced diagnostics allow for quick troubleshooting
- Safety PLC input compatible (per OSSD specifications)
- Rated Type 4 per IEC 61496
- Available with optional ESD-safe housing, pigtail connectors and cascading on some models



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EZ-SCREEN® Low-Profile

- Features space saving design to fit perfectly into machinery
- Offered with 14 & 25 mm resolution options
- Reduced resolution and fixed blanking
- Operates in ranges up to 7 m
- Resists impact, twisting and abusive environments with a durable aluminum housing and metal endcaps
- Offers optional cascading to create up to a four sensor system that issues a single stop command



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EZ-SCREEN® TYPE 2

- Designed for lower-risk applications
- Provides economical, compact optical safeguarding
- Rated Type 2 per IEC 61496
- Offered with 30 mm resolution and 15 m range



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Grids & Points

- Suited to a variety of access and long-range perimeter guarding applications
- Uses 1-, 2-, 3- or 4-beams to protect personnel and machinery
- Can be combined with other devices, such as mirrors and Points, for a custom configuration
- Offers optional lens shields and enclosures for added durability

Photoelectrics
Sensors

Fiber Optic
Sensors

Measurement &
Inspection Sensors

Special Purpose
Sensors

Vision

Lighting &
Indicators

Wireless

**Safety
Light Screens**

Safety
Laser Scanners

Safety Controllers &
Modules

Safety Two-Hand
Control Modules

Safety Interlock
Switches

Emergency Stop &
Stop Control





EZ-SCREEN

TYPE 4
14 or 30 mm

TYPE 4
LOW PROFILE
14 or 25 mm

TYPE 2
30 mm

GRIDS & POINTS

		Model	Page	Safety Rating	Resolution	Supply Voltage	Maximum Range
EZ-SCREEN® Type 4	Standard Systems		517	Type 4 Category 4 PLe SIL 3 Control Reliable	14 & 30 mm	24V dc	6 m/18 m
	Cascade Systems				14 & 30 mm		6 m/18 m
	V-Series				30 mm		18 m
	Low-Profile Systems				14 & 25 mm		7 m
	Low-Profile Cascade Systems				14 & 25 mm		7 m
	Low-Profile Muting Systems				14 & 25 mm		7 m
	Grid & Point Systems			Type 4 Category 4 Control Reliable (call for other ratings)	300 to 584 mm (beam spacing)		20 m/70 m
EZ-SCREEN® Type 2	Type 2 Systems		534	Type 2 Category 2 PL d SIL 2	30 mm	24V dc	15 m

Safety Output	Auxiliary Output	Blanking	Output Response Time	Housing Material	Environmental Rating
2 PNP OSSD (Trip/Latch Selectable)	Yes PNP OSSD follow (when configured for 1-CH EDM)	2-beam Reduced Resolution & Fixed	9 to 56 ms	Aluminum housing with yellow polyester powder finish (other colors available) nickel-plated ESD, clear anodized aluminum or nickel-plated silver	IEC IP65
			11 to 56 ms		
			9 to 23 ms	Aluminum housing with yellow polyester powder finish, nickel-plated ESD or clear anodized aluminum	
			8 to 43.5 ms		
			9.5 to 43.5 ms		
			9 to 32 ms	Aluminum housing with yellow polyester powder finish	
—	—	24 ms	Aluminum housing with yellow polyester powder finish		
2 PNP OSSD (Trip or Latch)	—	—	11 to 29 ms	Aluminum housing with yellow polyester powder finish	IEC IP65

Photoelectrics Sensors

Fiber Optic Sensors

Measurement & Inspection Sensors

Special Purpose Sensors

Vision

Lighting & Indicators

Wireless

Safety Light Screens

Safety Laser Scanners

Safety Controllers & Modules

Safety Two-Hand Control Modules

Safety Interlock Switches

Emergency Stop & Stop Control

EZ-SCREEN

TYPE 4
14 or 30 mm

TYPE 4
LOW PROFILE
14 or 25 mm

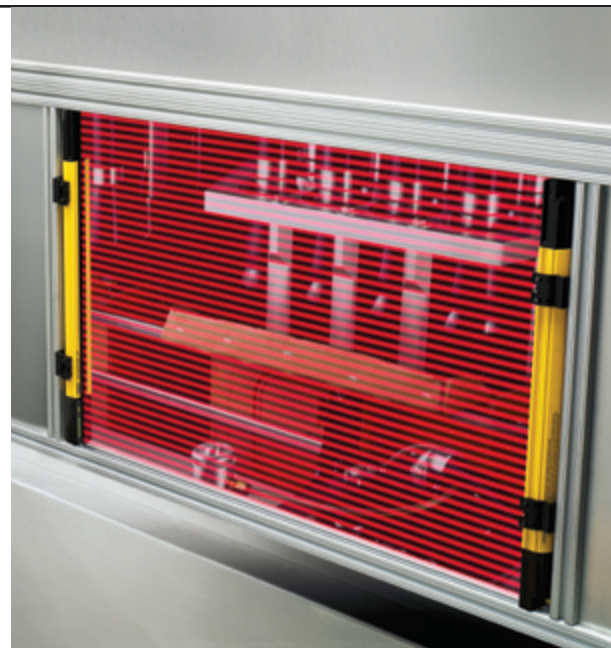
TYPE 2
30 mm

GRIDS & POINTS

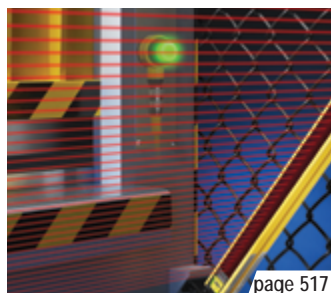
EZ-SCREEN®

Safety Light Screens

- Simple, two-piece integrated system has no control box
- EZ-SCREEN point-of-operation systems provide finger, hand and ankle detection in a standard or low-profile housing to fit any machine
- Point and Grid systems allow one-, two-, three- or four-beam perimeter and access guarding
- Type 4 models are designed with redundant microprocessor-controlled, self-checking circuitry to exceed control reliability requirements and are certified for CE (Type 4/Category 4 PLe) and cULus/cTUVus applications (dependent on model)
- Type 2 systems are suited to lower-risk applications where the result of an accident is only a slight injury and meet all requirements for CE (Type 2/Category 2 PL d) and cULus applications
- Superior optical design makes system extremely easy to align
- Status indicators and diagnostics show when alignment is complete and if there are problems with the installation
- Cascading models allow up to four systems of any length and resolution to be wired together to form a single safety device
- Systems have ranges up to 70 m, with power and range for all types of applications including long-range perimeter guarding



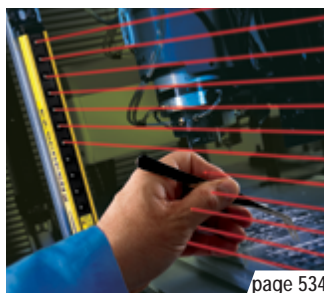
Interface multiple devices with the SC22-3 Safety Controller. See page 555.



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Type 4 Point-of-Operation and Area

- Provides choice of models for finger, hand and ankle detection
- Includes standard or low-profile models to fit any machine
- Meets Type 4 requirements
- Offers cascading models to allow up to four systems to be wired together to form a single safety device
- Includes ESD-safe solutions
- Provides remote (TEACH) Fixed Blanking options



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Type 2 Point-of-Operation and Area

- Designed for lower-risk applications
- Meets Type 2 requirements
- Offered with 30 mm resolution and 15 m range



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Type 4 Single-Point Access

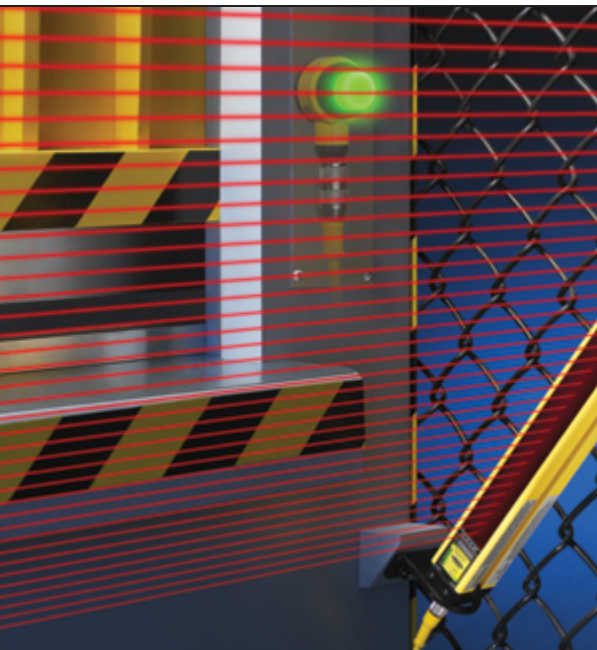
- Uses angled mirrors to simulate a two-beam system
- Allows for the use of multiple units to create custom beam patterns
- Meets Type 4 requirements



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Type 4 Perimeter and Access Guarding

- Uses one-, two-, three- or four- beams for perimeter and long-range single-sided protection
- Guards multiple sides of a dangerous area up to 70 m long
- Meets Type 4 requirements



EZ-SCREEN®

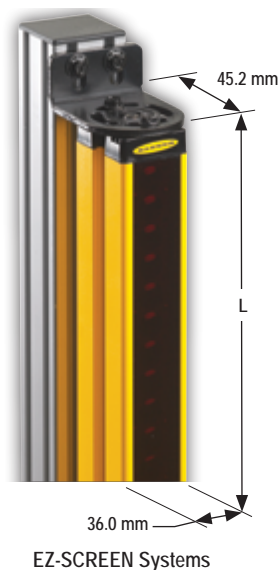
Type 4 Point-of-Operation

- Available in 14 mm resolution for finger, hand and ankle detection or 30 mm resolution for hand and ankle detection
- Operates in ranges from 0.1 to 6 m (14 mm models) and 0.1 to 18 m (30 mm models)
- Offers fixed or 2-beam reduced resolution (floating blanking) to ignore tooling or constant inflow of materials
- Displays operating status, configuration error codes and blocked beams
- User-configurable trip or latch outputs, Scan Code 1 or 2 and Aux output
- Exceeds OSHA/ANSI Control Reliability requirements, certified to cULus NIPF, and CE certified to Type 4, Cat 4 PLe, and SIL 3
- Provides external device monitoring (EDM)
- Resists impact, twisting and abusive environments with a durable aluminum housing and metal endcaps
- Available with standard yellow, clear anodized aluminum housing or nickel-plated ESD-safe housing for protection against electrostatic discharges (other color options available)
- Offers optional cascading to create up to a four sensor system that issues a single stop command
- Offers optional lens shields and enclosures for added durability

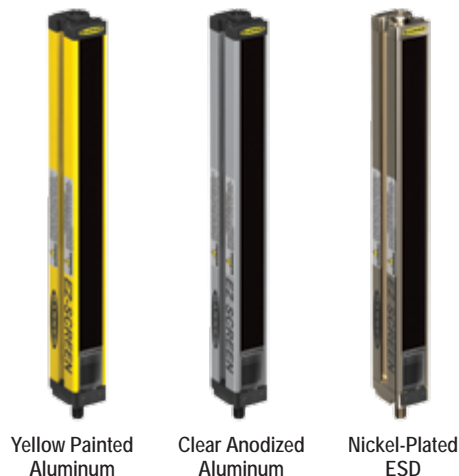
Photoelectrics Sensors
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Safety Two-Hand Control Modules
Safety Interlock Switches
Emergency Stop & Stop Control

ACCESSORIES
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EZ-SCREEN
TYPE 4 14 or 30 mm
TYPE 4 LOW PROFILE 14 or 25 mm
TYPE 2 30 mm
GRIDS & POINTS



Some of the Available Finishes



Interface multiple devices with the SC22-3 Safety Controller. See page 555

EZ-SCREEN® Systems, 14 mm Resolution Model Key, 24V dc

Model Style

SLS

E

SLS = Safety Light Screen
SLSC = Cascading Safety Light Screen

E = Emitter
R = Receiver
P = Pair***

Resolution

14

14 = 14 mm

Defined Area

150

Finish

Blank = Yellow powder coat
N = Nickel-plated ESD**
A = Clear Anodized Aluminum
S = Nickel-plated (silver)
B = Black powder coat
W = White powder coat

Connection

Q8

or

Q8 = 8-pin QD
P8 = 8-pin Pigtail QD

Q88 = Emitter with 8-pin QD Receiver with 8-pin QD
P88 = Emitter with 8-pin pigtail QD Receiver with 8-pin pigtail QD

	Housing Length	Response Time†	# of Beams		Housing Length	Response Time†	# of Beams
150*	262 mm	11 ms	20	1050	1120 mm	36 ms	140
300	372 mm	15 ms	40	1200	1270 mm	40 ms	160
450	522 mm	19 ms	60	1350	1420 mm	43 ms	180
600	671 mm	23 ms	80	1500	1569 mm	48 ms	200
750	821 mm	27 ms	100	1650	1719 mm	52 ms	220
900	971 mm	32 ms	120	1800	1869 mm	56 ms	240

* 150 mm not available in cascade models
** ESD-safe models are not available with the pigtail QD option
*** A pair includes an emitter and receiver (example, SLSP14-150Q88)

Contact Banner Engineering Corp. for additional information and/or verification of valid kit model numbers.

EZ-SCREEN® Systems, 30 mm Resolution Model Key, 24V dc

Model Style

SLS

E

SLS = Safety Light Screen
SLSC = Cascading Safety Light Screen

E = Emitter
R = Receiver
P = Pair***

Resolution

30

30 = 30 mm

Defined Area

150

Finish

Blank = Yellow powder coat
N = Nickel-plated ESD**
A = Clear Anodized Aluminum
S = Nickel-plated (silver)
B = Black powder coat
W = White powder coat

Connection

Q8

or

Q8 = 8-pin QD
P8 = 8-pin Pigtail QD

Q88 = Emitter with 8-pin QD Receiver with 8-pin QD
P88 = Emitter with 8-pin pigtail QD Receiver with 8-pin pigtail QD

	Housing Length	Response Time†	# of Beams		Housing Length	Response Time†	# of Beams
150*	262 mm	9 ms	10	1350	1420 mm	25 ms	90
300	372 mm	11 ms	20	1500	1569 mm	27 ms	100
450	522 mm	13 ms	30	1650	1719 mm	30 ms	110
600	671 mm	15 ms	40	1800	1869 mm	32 ms	120
750	821 mm	17 ms	50	1950	2018 mm	34 ms	130
900	971 mm	19 ms	60	2100	2168 mm	36 ms	140
1050	1120 mm	21 ms	70	2250	2318 mm	38 ms	150
1200	1270 mm	23 ms	80	2400	2468 mm	40 ms	160

* 150 mm not available in cascade models
** ESD-safe models are not available with the pigtail QD option
*** A pair includes an emitter and receiver (example, SLSP30-150Q88)

Contact Banner Engineering Corp. for additional information and/or verification of valid kit model numbers.

QD models: A model with a QD requires a mating cordset (see page 525).

For an emitter with TEST function, replace Q8 with Q5 on emitter model numbers (example, SLSE14-150Q5) and Q88 with Q85 on pair model numbers (example, SLSP14-150Q85).
For a 5-pin 300 mm M12/Euro pigtail QD with No EDM or TEST functions, replace Q8 with P5NT on emitter or receiver (example, SLSE14-150P5NT) and Q88 with P55NT on pair model numbers (example, SLSP14-150P55NT).
For a 4-pin 300 mm M12/Euro pigtail QD with no EDM or TEST functions (GND/PE via mounting), replace Q8 with P4NT or Q88 with P44NT (example, SLSP14-150P4NT or SLSP14-150P44NT).

† Cascading system response time: To the response time of the slowest pair, add 2 ms for each additional pair.
Example: slowest pair's response time is 15 ms, and the system has three additional pairs (four pairs total), so the system maximum response time is 15 ms + 6 ms (3 pairs x 2 ms) = 21 ms.

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