

LIGHT SCREENS

EZ-SCREEN® TYPE 4



EZ-SCREEN® TYPE 2

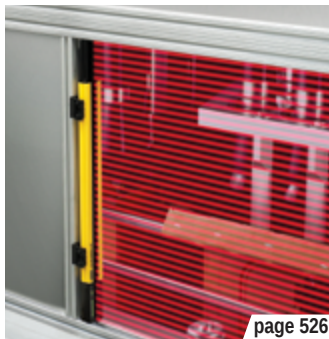


EZ-SCREEN® TYPE 4 Grids & Points



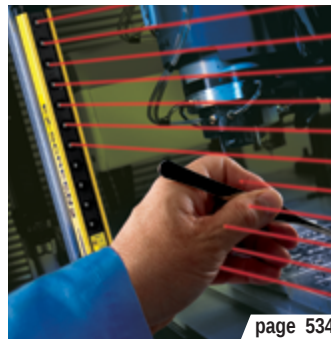
EZ-SCREEN® TYPE 4

- 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



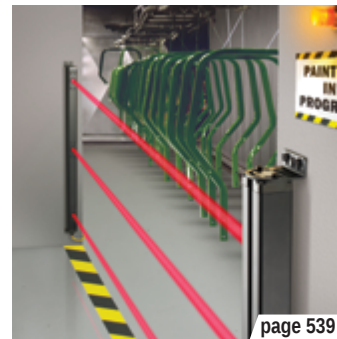
EZ-SCREEN® Low-Profile

- 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



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



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 mm			
	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

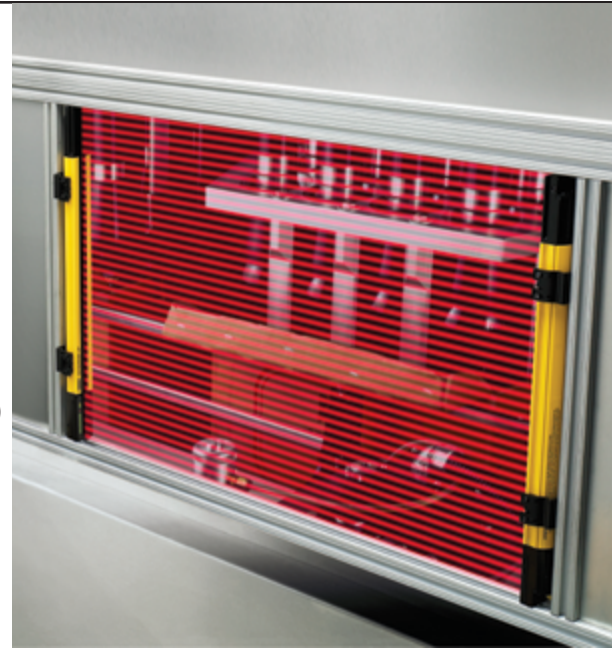
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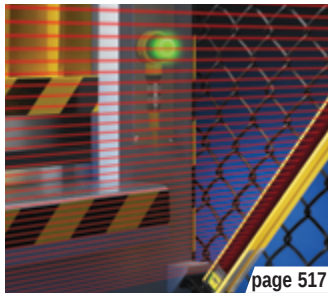
EZ-SCREEN®

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 PL_e) 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

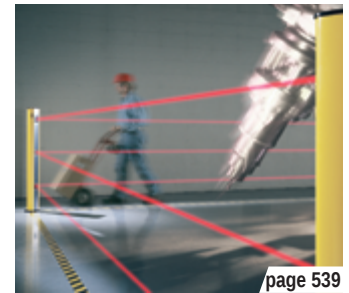


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Type 4

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

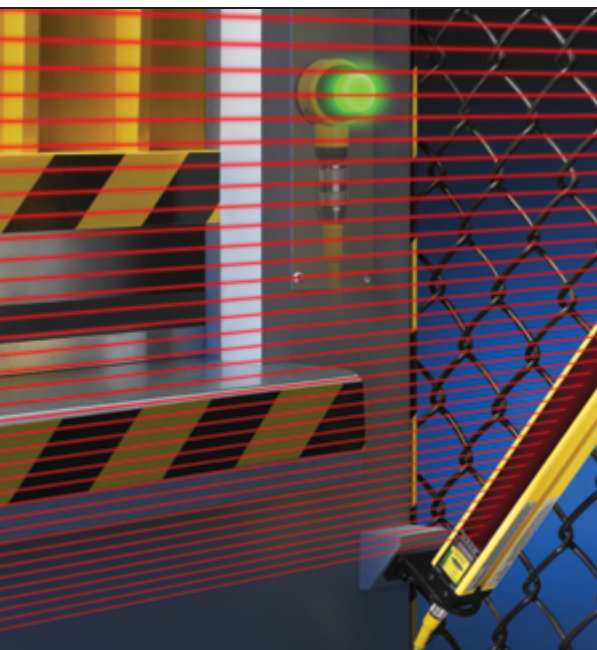


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Type 4

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



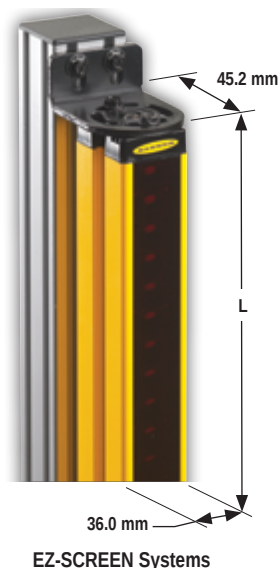
EZ-SCREEN® Type 4 Point-of-Operation

- 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

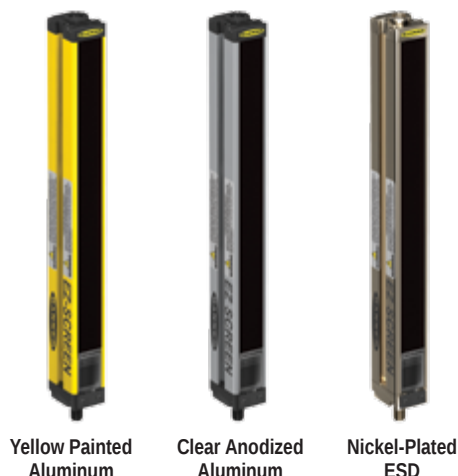
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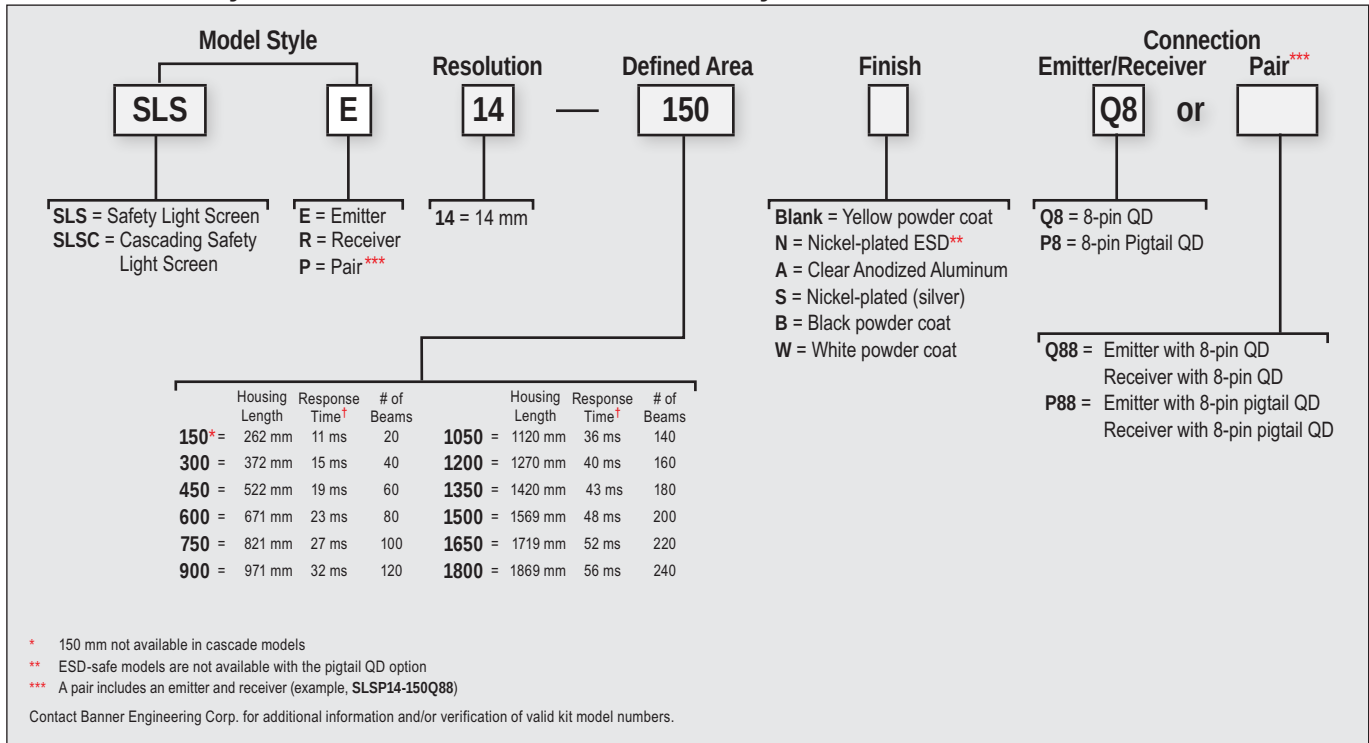


Some of the Available Finishes

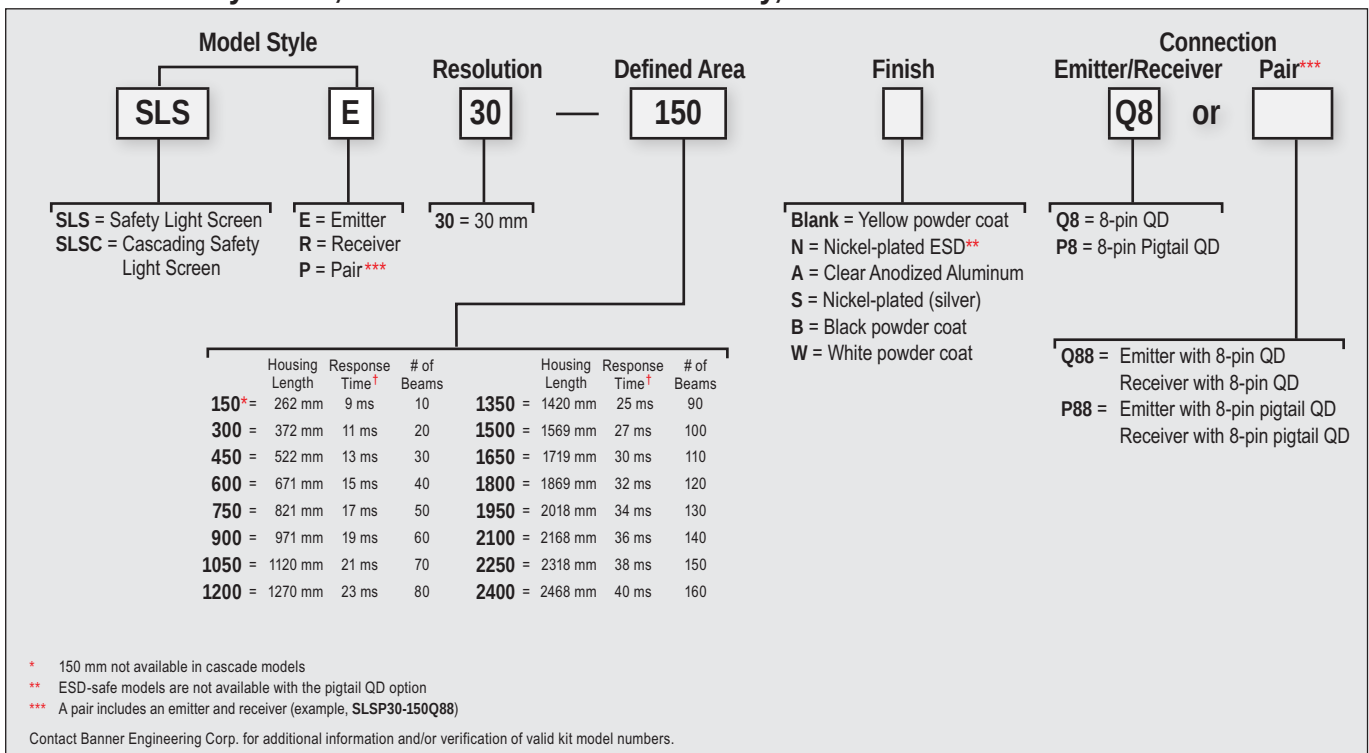


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EZ-SCREEN® Systems, 14 mm Resolution Model Key, 24V dc



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



 **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.