

30 mm Resolution



14 or 30 mm

Resolution

### **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

Low-Profile

14 or 25 mm

Resolution

- · Features space saving design to fit perfectly into machinery
- Offered with 14 & 25 mm resolution
- · 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

Grids & Points

- · Suited to a variety of access and longrange 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

Vision Lighting & Indicators

Photoelectrics Sensors Fiber Optic Sensors

Measurement & Special Purpose

Wireless

Safety Light Screens

Safety Laser Scanners

Safety Controllers & Modules

Safety Two-Hand Control Modules

Safety Interlock Switches

Emergency Stop & Stop Control

LOW PROFILE 14 or 25 mm TYPE 2 **GRIDS & POINTS** 

EZ-SCREEN TYPE 4 14 or 30 mm TYPE 4

Model		Page	Safety Rating	Resolution	Supply Voltage	Maximum Range	
EZ-SCREEN® Type 4	Standard Systems		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	517		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		
			11 to 56 ms	(other colors available) nickel-plated ESD, clear anodized aluminum or nickel-plated silver	IEC IP65	
			9 to 23 ms			
			8 to 43.5 ms	Aluminum housing with yellow polyester powder finish, nickel-plated ESD or clear anodized aluminum		
			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	

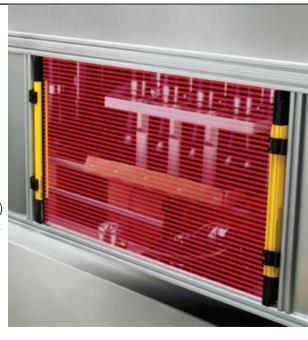
Photoelectrics Sensors Fiber Optic Sensors Measurement & Inspection Sensors Special Purpose Sensors Vision Lighting & Indicators Wireless Safety Light Screens Safety Controllers & Modules
Safety Two-Hand Control Modules
Safety Interlock Switches
Emergency Stop & Stop Control

### EZ-SCREEN

TYPE 4 14 or 30 mm TYPE 4 LOW PROFILE 14 or 25 mm TYPE 2 30 mm **GRIDS & POINTS** 

# **EZ-SCREEN**<sup>®</sup> 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







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



Point-of-Operation and Area

- Designed for lower-risk applications
- · Meets Type 2 requirements

Type 2

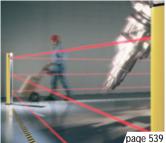
 Offered with 30 mm resolution and 15 m range



Type 4
Single-Point Access

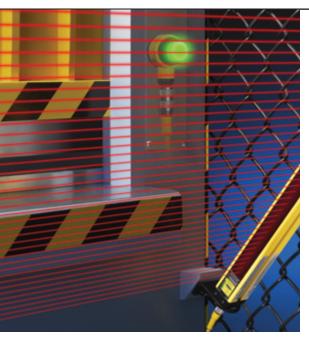
EZ-SCREEN® (TYPE 2)

- 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



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

Fiber Optic Sensors

Measurement & Inspection Sensors

Special Purpose

Vision

Lighting & Indicators

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#### EZ-SCREEN

TYPE 4 14 or 30 mm TYPE 4 LOW PROFILE 14 or 25 mm TYPE 2 **GRIDS & POINTS** 





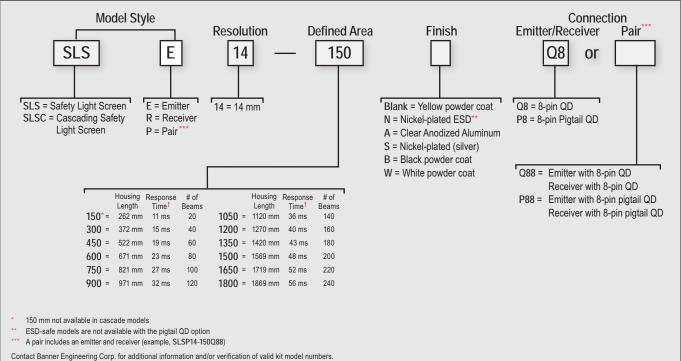
Yellow Painted Clear Anodized Nickel-Plated FSD

**Aluminum** 

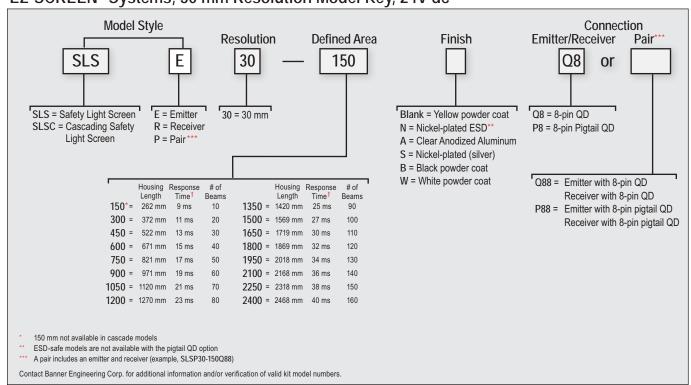
Aluminum







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, SLSP14-150P5NT).

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 P4NT (example, SLSP14-150P4NT or SLSP14-150P4NT).

<sup>1</sup> 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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