

Compact design and flexible mounting options deliver an exact fit with no dead zone.

The EZ-SCREEN® line of robust safety light curtains now includes models for continuous detection along the entire light screen length. The space-saving, compact profile of the EZ-SCREEN LP is ideal for smaller machines, yet robust enough to meet the demands of large power presses. Plus, with several housing finishes, cascading and many mounting options, EZ-SCREEN LP provides a perfect fit for a wide range of safeguarding applications.

- Features compact 28 x 26 mm housing
- Positions first and last beam at the ends for continuous sensing
- Includes 14 or 25 mm resolution models
- Offers defined areas from 270 to 1810 mm with detection ranges up to 7 m
- Provides response times as fast as 8 milliseconds

- · Identifies blocked beams using zone indicators
- Features /-segment display with diagnostic information and number of blocked beams
- Presents system status and alignment using highly visible LEDs (bi-color)
- Includes models with nickel-plated housing for ESD-safe applications, clear anodized aluminum housing or "safety" yellow powder-coat housing

Low-profile design with proven EZ-SCREEN® performance

- Simple, two-piece integrated design 26 mm 28 mm
- Superior optical design for easy system alignment
- Convenient setup without a PC, disassembly or additional devices
- Easily configured Reduced Resolution and Fixed Blanking
- External Device Monitoring
- ► Exceeds OSHA/ANSI Control Reliability requirements, certified to cULusNIPF, and CE certified to Type 4, Category 4 PLe and SIL 3
 - Two solid-state OSSD safety outputs; includes selectable trip/latch output
 - User configurable Aux output
 - Flexible wiring scheme for allowing "swapable" emitters and receivers

Flexible Cascading

- Allows four systems—of any length and resolution—to be connected in series, forming a single safety device
- Guards multiple sides of machine, such as L- or U-shaped configuration
- Provides continuous detection without overlapping light curtains or protruding cables

Mounting Versatility

- · Space-saving design for a perfect fit
- Brackets included for end mounting or side mounting with no dead zone
- Brackets rotate for fine alignment
- Inline and L-brackets for mounting with no "gap" on 25 mm systems
- Optional brackets for mounting inside P1000 Unistrut® metal framing
- Multi-directional routing of cables for easy integration into machinery

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more sensors, more solutions



Space-saving design installs perfectly in machinery, eliminating protruding light screens.



Included side brackets allow no dead zone with continuous sensing along entire length.



Included end brackets provide 360° mounting.

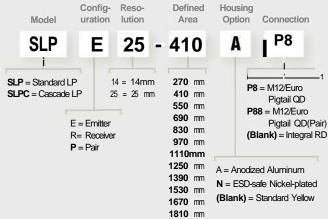






Low-profile mounting saves valuable space.

EZ-SCREEN® LP System Model Guide



Connections 300 mm 8-pin M12/Euro Pigtail QD Order mating M12/Euro QD cordset separately: QDE, DEE2RorCSB;seepage4 Integral Removable Disconnect (RD) Order RDLP, DELPE or DELP separately; see page 4 RDtoRD Requires DELP (connection of 2nd, 3rd and 4th sensors in a cascade); see page 4

Standard EZ-SCREEN LP Models, 24V dc @ 210 mA

Defined Area		to mm nesoiuuon mooei	'-* is	Connection	Response	
Defined Area	Emitter	Receiver	Pair	Connection	Time	
270 mm	SLPE25-270P8	SLPR25-270P8	SLPP25-270P88	M12/Euro Pigtail QD	8 ms	
2/0111111	SLPE25-270	SLPR25-270	SLPP25-270	Integral RD	Uma	
410 mm	SLPE25-410P8	SLPR25-410P8	SLPP25-410P88	M12/Euro Pigtail QD	9.5 ms	
410 111111	SLPE25-410	SLPR25-410	SLPP25-410	Integral RD	9.5 1118	
550 mm	SLPE25-550P8	SLPR25-550P8	SLPP25-550P88	M12/Euro Pigtail QD		
220 11111	SLPE25-550	SLPR25-550	SLPP25-550	Integral RD	1 1 1790	
690 mm	SLPE25-690P8	SLPR25-690P8	SLPP25-690P88	M12/Euro Pigtail QD	10 B mo	
090 111111	SLPE25-690	SLPR25-690	SLPP25-690	Integral RD	12.8 193	
830 mm	SLPE25-830P8	SLPR25-830P8	SLPP25-830P88	M12/Euro Pigtail QD	14 ms	
030 11111	SLPE25-830	SLPR25-830	SLPP25-830	Integral RD		
SLPE25-970P8 SLPR25-970P8		SLPP25-970P88	M12/Euro Pigtail QD	15.5 ms		
970 mm	SLPE25-970	SLPR25-970	SLPP25-970	Integral RD	13.3 1118	
1110 mm	SLPE25-1110P8	SLPR25-1110P8	SLPP25-1110P88	M12/Euro Pigtail QD	17, IIK	
1110111111	SLPE25-1110	SLPR25-1110	SLPP25-1110	Integral RD	III IIIS	
1250 mm	SLPE25-1250P8	SLPR25-1250P8	SLPP25-1250P88	M12/Euro Pigtail QD	18.5 ms	
1230 11111	SLPE25-1250	SLPR25-1250	SLPP25-1250	Integral RD	10.3 1118	
1390 mm	SLPE25-1390P8	SLPR25-1390P8	SLPP25-1390P88	M12/Euro Pigtail QD	20 ms	
1990 11111	SLPE25-1390	SLPR25-1390	SLPP25-1390	Integral RD	20 1115	
1530 mm	SLPE25-1530P8	SLPR25-1530P8	SLPP25-1530P88	M12/Euro Pigtail QD	0.1 700	
1330 11111	SLPE25-1530	SLPR25-1530 SLPP25-1530		Integral RD	9.1 ₁ F190	
1670 mm	SLPE25-1670P8	SLPR25-1670P8	SLPP25-1670P88	M12/Euro Pigtail QD	99 R IIK	
1070 11111	SLPE25-1670	SLPR25-1670	SLPP25-1670	Integral RD	22.13 IIIS	
1810 mm	SLPE25-1810P8	SLPR25-1810P8	SLPP25-1810P88	M12/Euro Pigtail QD	24 ms	
1010 mm	SLPE25-1810	SLPR25-1810	SLPP25-1810	Integral RD	24 IIIS	

^{*} Only 25 mm resolution models are listed. For 14 mm resolution, replace 25 with 14 ln model number (example, SLPE14-270P8). Only standard yellow housing models are listed. The 300 mm pigtail has yellow PVC cable with black PVC QD overmold.

LPA-MBK-11 (Standard)	LPA-MBK-12 (Standard)	LPA-MBK-20	LPA-MBK-22
End-cap bracket kit 360° sensor rotation 14-ga. (1.9 mm) steel, black zinc plated; die-cast zinc plate Flanges can be mounted "In" or "Out" Includes 2 brackets and hardware	Side-mount bracket kit +> +107-30° sensor rotation 114-ga. (1.9 mm) steel, black zinc plated; die-cast zinc clamp Includes 1 bracket and hardware	Universal adapter bracket for mounting to engineered/slotted aluminum framing (example, 80/20™, Bosch) Use with other LPA-MBK-xx brackets 12-ga(2.66mm) steel, black zinc plated Includes 1 bracket and hardware	End-cap bracket for mounting sensor inside Unistrut® metal framing Fits Unistrut® P1000 size (15/8 th), with M6 or !4" channel nuts 14-ga. (1.9 mm) steel, black zinc plated; die-cast zinc clamp Includes 2 brackets and hardware

To Order:

©Choose model, defined area and resolution (14 or 25 mm). ©Choose an Emitter (E), a Receiver (R) or a Pair (P).

©Yellow housing is standard. To choose an optional housing, add an A or N prior to the connection designation:

- · A for anodized aluminum (clear) finish with black end caps (example, SLPE25-270A)ft
- N for ESD-safe models with a nickel-plated housing and end caps (example, SLPE25-270N)"

©Choose the connection: 300 mm M12/Euro Pigtail QD or integral Removable Disconnect (RD). See connections to left.

- t Kit options are available. See EZ-SCHEEN LP manual (p/n 140044), the Banner Safety Catalog or www.bannerengineering.com tor complete information, a current listing of accessories and options for kitting components. Call factory with questions regarding accessories.
- 11 Optional housings with Pigtail QD models have a black 300 mm PVC cable and QD overmoid.

- 6 Choose one cordset for each sensor or two cordsets for a pair. See page 4:
 - M12/Euro Pigtail QD models (example, SLP..-270P8) require mating 8-pin M12/Euro QD cordsets, such as:
 - -QDE cordset with flying leads
 - DEE2R double-ended cordset
 - CSB series splitter cordset
 - Integral RD models (example, SLP..-270) require mating cordsets, such as:
 - RDLP cordset with flying leads
 - DELPE double-ended cordset with M12/Euro QD (requires additional mating 8-pin M12/Euro QD cordsets)
 - DELP cordset in cascade applications for connection of 2nd, 3rd and 4th sensors
- 6 Choose an optional interfacing solution, such as an IM-T-9A or -11A interfacing model. See page 4.

Cascade EZ-SCREEN® LP Models, 24V dc @ 210 mA

Defined Area	Emitter	ro mm nesoiuuon moneis Receiver	* Pair	Connection	Response Time	
	SLPCE25-410P8	SLPCR25-410P8	SLPCP25-410P88	M12/Euro Pigtail QD		
410 mm	SLPCE25-410	SLPCR25-410	SLPCP25-410	Integral RD	9.5 ms	
550	SLPCE25-550P8	SLPCR25-550P8	SLPCP25-550P88	M12/Euro Pigtail QD	44	
550 mm	SLPCE25-550	SLPCR25-550	SLPCP25-550	Integral RD	11 ms	
600 mm	SLPCE25-690P8	SLPCR25-690P8	SLPCP25-690P88	M12/Euro Pigtail QD	12.5 ms	
690 mm	SLPCE25-690	SLPCR25-690	SLPCP25-690	Integral RD	12.5 ms	
000	SLPCE25-830P8	SLPCR25-830P8	SLPCP25-830P88	M12/Euro Pigtail QD	44	
830 mm	SLPCE25-830	SLPCR25-830	SLPCP25-830	Integral RD	14 ms	
070	SLPCE25-970P8	SLPCR25-970P8	SLPCP25-970P88	M12/Euro Pigtail QD	15.5 ms	
970 mm	SLPCE25-970	SLPCR25-970	SLPCP25-970	Integral RD		
1110 mm	SLPCE25-1110P8	SLPCR25-1110P8	SLPCP25-1110P88	M12/Euro Pigtail QD	47	
1110 mm	SLPCE25-1110	SLPCR25-1110	SLPCP25-1110	Integral RD	17ms	
1250 mm	SLPCE25-1250P8	SLPCR25-1250P8	SLPCP25-1250P88	M12/Euro Pigtail QD	18.5 ms	
1250 11111	SLPCE25-1250	SLPCR25-1250	SLPCP25-1250	Integral RD	3111 G.01	
1390 mm	SLPCE25-1390P8	SLPCR25-1390P8	SLPCP25-1390P88	M12/Euro Pigtail QD	20 ms	
1390 11111	SLPCE25-1390	SLPCR25-1390	SLPCP25-1390	Integral RD	20 1115	
1530 mm	SLPCE25-1530P8	SLPCR25-1530P8	SLPCP25-1530P88	M12/Euro Pigtail QD	21ms	
1550 11111	SLPCE25-1530	SLPCR25-1530	SLPCP25-1530	Integral RD	211115	
1670 mm	SLPCE25-1670P8	SLPCR25-1670P8	SLPCP25-1670P88	M12/Euro Pigtail QD	22.5 ms	
10/0 111111	SLPCE25-1670	SLPCR25-1670	SLPCP25-1670	Integral RD	22.3 1115	
1810 mm	SLPCE25-1810P8	SLPCR25-1810P8	SLPCP25-1810P88	M12/Euro Pigtail QD	24 ms	
101011111	SLPCE25-1810	SLPCR25-1810	SLPCP25-1810	Integral RD	24 1115	

^{*} Only 25 mm resolution models are listed. For 14 mm resolution, replace 25 with 14 in model number (example, SLPCE14-270P8). Only standard yellow housing models are listed. The 300 mm pigtail has yellow PVC cable with black PVC QD overmoid 270 mm defined area is not available in cascade model. A standard SLP.. -270.. model can be used at the end of a cascade system.

Cascade Brackets LPA-MBK-21

LPA-MBK-21	LPA-MBK-180	LPA-MBK-135	LPA-MBK-120	LPA-MBK-90
Pivoting L-bracket Adjustable 90° to 180° orientation 1 +107-30° sensor rotation 14-ga. (1.9 mm) 14-ga. (1.9 mm) 15-ga. (1.9	 Inline bracket Fixed 180° orientation 1+107-30° sensor rotation 14-ga. (1.9 mm) steel, black zinc plated 	*> Angled L-bracket *> Fixed 135° orientation *\frac{1}{107-30} \text{ sensor rotation} *\frac{1}{14-ga}. (1.9 mm) ** steel, black ** zinc plated**	*> Angled L-bracket *> Fixed 120° orientation *\frac{1}{107-30° sensor rotation} *\frac{114-ga. (1.9 mm)}{114-ga. (1.9 mm)} **steel, black **zinc plated**	> Angled L-bracket > Fixed 90° orientation 1 +107-30° sensor rotation 1 14-ga. (1.9 mm) steel, black zinc plated

Cascade brackets join two cascaded emitters or receivers. Each model number is one set of two brackets.



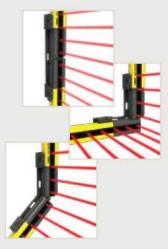
LEDsand 7-segment display indicate system status, alignment and blocked beams.



Up to four units can be connected in series without protruding cables.



Cascading models in L- or U-shaped configuration provide continuous sensing.



Fixed-angle brackets allow end-to-end, L- or U-shaped, and angled setup without overlapping and maintain 25 mm resolution.

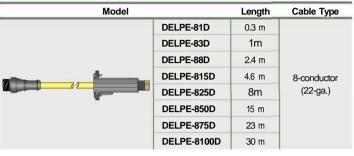
Cordsets

All standard cordsets are yellow PVC cable with black overmold. For black PVC cable and overmold, add suffix B to model number (example, RDLP-815DB). Other cordset options available, see EZ-SCREEN LP manual (p/n 140044).

Removable Disconnect Connector with Flying Leads

Model		Length	Cable Type
A112222000	RDLP-815D	4.5 m	
~ 4	RDLP-825D	8 m	
	RDLP-850D	15 m	8-conductor (22-ga.)
	RDLP-875D	23 m	(22-ga.)
	RDLP-8100D	30 m	

Removable Disconnect Connector with M12/Euro QD



Removable Disconnect Connector (Double-Ended): cascade

cordset with removable disconnects for connection of 2nd, 3rd and 4th sensor in series

Model		Length	Cable Type
	DELP-110E	0.05 m	
	DELP-111E	0.3 m	
	DELP-113E	1 m	
	DELP-118E	2.4 m	11-conductor
	DELP-1115E	4.5 m	(24-ga.)
4	DELP-1125E	8 m	
	DELP-1150E	15 m	
	DELP-1175E	23 m	
	DELP-11100E	30 m	

SC22-3 Safety Controller

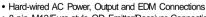
Model*	Terminal	XM Card	Data Sheet
SC22-3-S	Screw	Von	133487
SC22-3-C	Clamp	Yes	133467

Other models are available (example, USB cable, XM programming, EtherNet IP, and Modbus TCP).

Interface Modules



AC Interface Box



• 8-pin M12/Euro-style QD Emitter/Receiver Connection

Model	Outputs	EDM	Data Sheet
EZAC-R9-QE8	3 NO	Selectable 1-or 2-	120321
EZAC-R11-QE8	1NO&1NC	channel or no EDM	120321

Mechanically Linked Contactors

Model	Description	Data Sheet
11-BG00-31-D-024	3 NO, 1NC(10amp)	111881
BF1801L-024	3 NO , 1NC(18amp)	111001

8-Pin M12/Euro QD with Flying Leads

Model		Length	Cable Type
	QDE-815D	4.5 m	
_	QDE-825D	8m	
	QDE-850D	15m	8-conductor (22-ga.)
	QDE-875D	23 m	(22-ga.)
	QDE-8100D	30 m	

8-Pin M12/Euro QD (Double-Ended)

Model		Length	Cable Type
n TAto	DEE2R-81D	0.3 m	ì
	DEE2R-83D	1m	
	DEE2R-88D	2.4 m	
	DEE2R-815D	4.5 m	8-conductor
U—ILJII	DEE2R-825D	8m	(22-ga.)
	DEE2R-850D	15m	
	DEE2R-875D	23 m	
	DEE2R-8100D	30 m	

8-Pin M12/EuroQD Splitter

Model	Branches (Female)	Trunk (Male)	Cable Type
CSB-M1281M1281		0.3 m	
CSB-M1288M1281		2.5 m	
CSB-M12815M1281	2 x 0.3 m	5m	8-conductor (22-ga)
CSB-M12825M1281		8m	(22-ga)
CSB-UNT825M1281		8 m unterminated	
	60 00		

MMD Muting Modules

3.5	Model	Description	Data Sheet
1	MMD-TA-12B	2 NO redundant-output contacts (6 amp), plus 1 NC auxiliary	116390
ı	MMD-TA-11B	2 PNP solid-state safety outputs (0.5 amp each)	

Replacement Parts

	Model	Description
	LPA-TP-1	Terminator plug
	DELPE-81D	Replacement pigtail for P8 models

EZ-SCREEIf: Best-in-Class, Two-Piece Safety Light Curtains

- Type 4 and Type 2 point-of-operation guarding
- · Perimeter and access guards
- Single point for entry/exit
- · Cascading models
- Easy setup, alignment and maintenance
- Unique mounting and retrofit options

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