SLC4 & LP Series

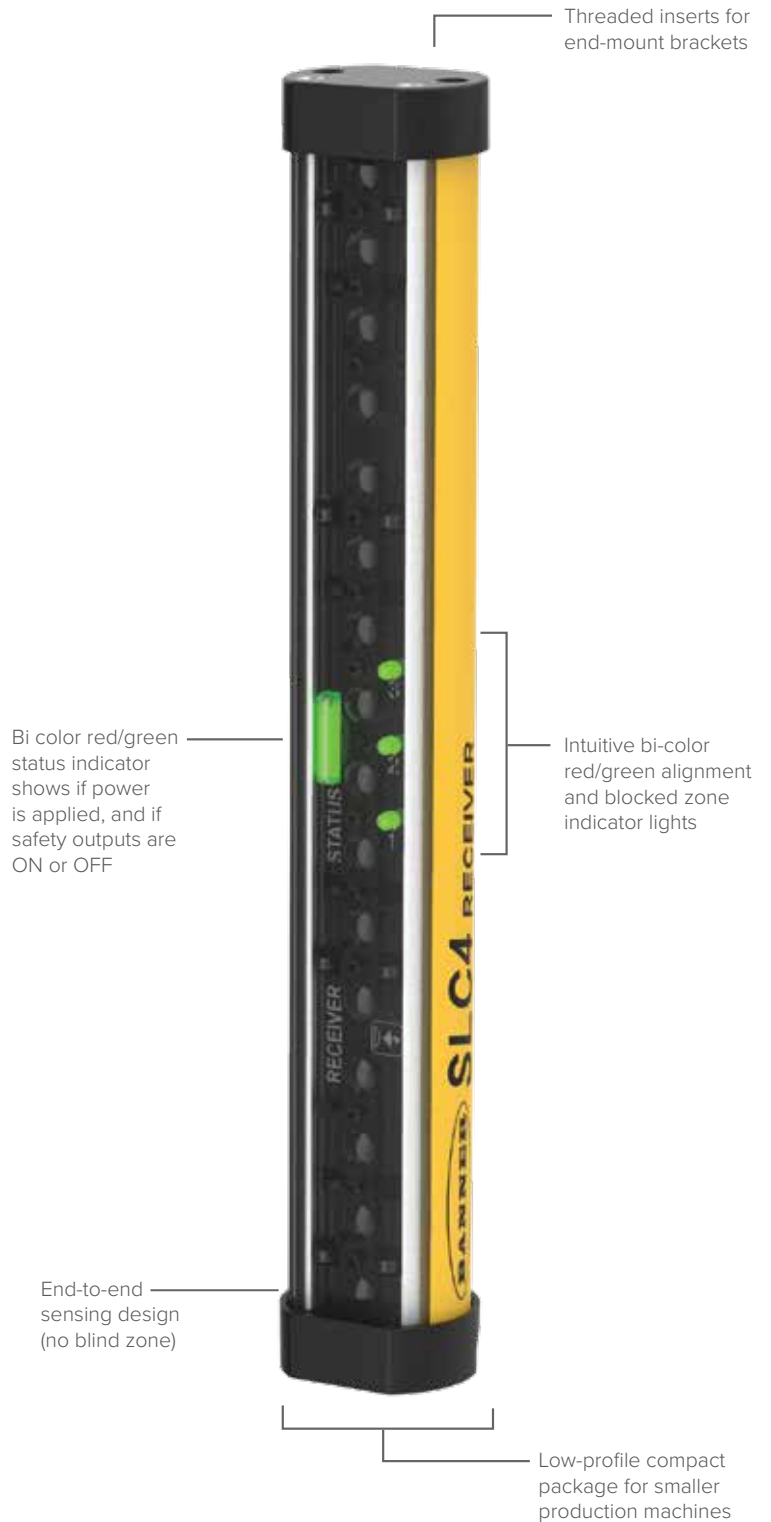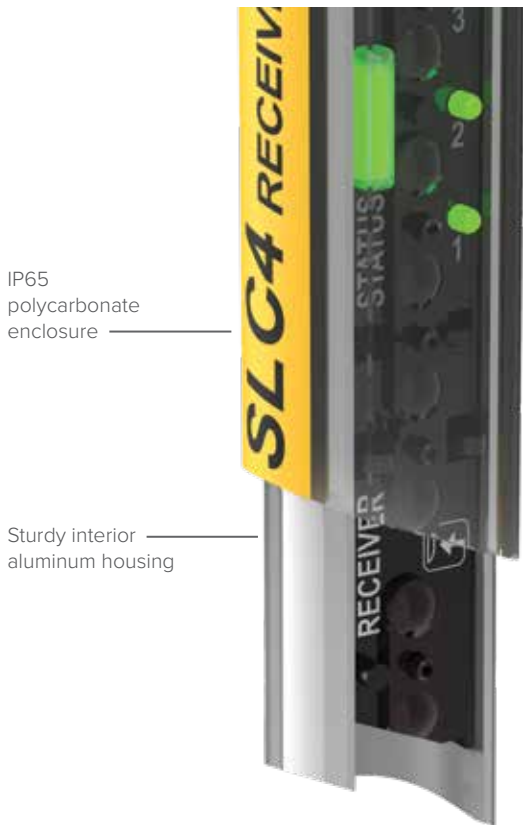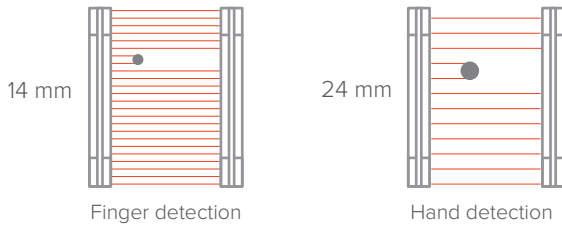## Compact Type 4 Safety Light Screens

- Small profile for tight spaces
- Basic and full-featured models
- Highly visible alignment and diagnostic indicators
- Available in two resolutions for finger or hand detection
- Lengths from 160 to 1250 mm
- End-to-end sensing design (no-blind zone)

BANNER®

more sensors, more solutions

Banner's Line of Compact Light Screens

SLC4

- 2 meter range
- 14 and 24 mm resolution
- IP65 rated
- Defined areas from 160 to 320 mm in 80 mm increments
- Basic functionality with auto start/restart (trip output)
- Integral 300 mm M12 QD Pigtail included, brackets ordered separately

Available in Two Resolutions

14 mm — Finger detection

24 mm — Hand detection

Threaded inserts for end-mount brackets

IP65 polycarbonate enclosure

Sturdy interior aluminum housing

Bi color red/green status indicator shows if power is applied, and if safety outputs are ON or OFF

Intuitive bi-color red/green alignment and blocked zone indicator lights

End-to-end sensing design (no blind zone)

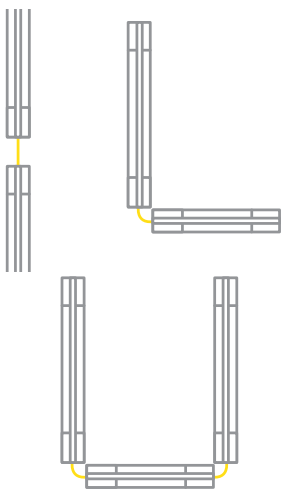Low-profile compact package for smaller production machines

LP Basic

- 4 meter range
- 14 and 25 mm resolution
- IP54 rated
- Defined areas from 270 to 690 mm in 140 mm increments
- Basic functionality auto start/restart (trip output)
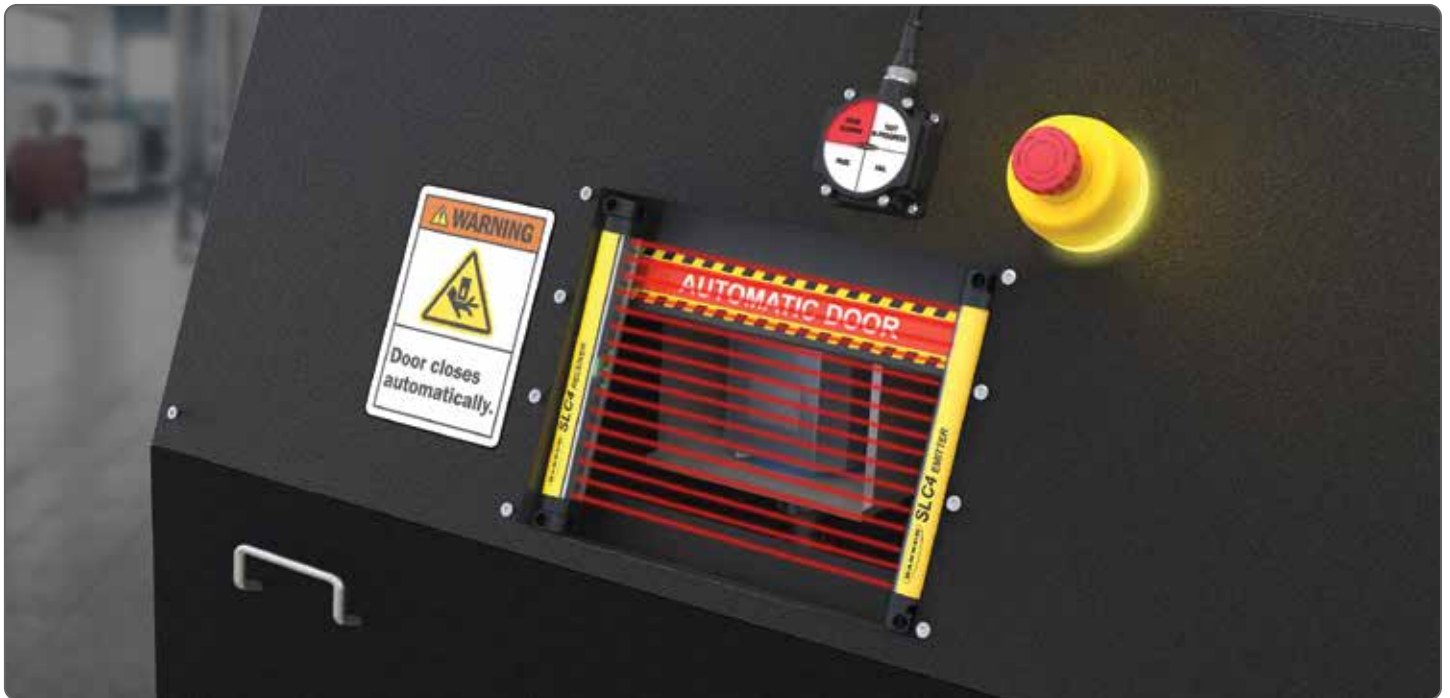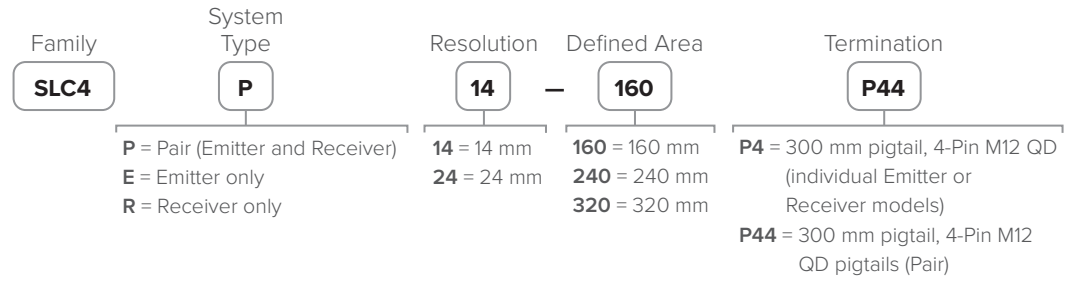- "RD" M12 pigtail and brackets ordered separately

LP

- 7 meter range
- 14 and 25 mm resolution
- IP65 rated
- Defined areas from 270 to 1250 mm in 140 mm increments
- Auto (trip output) or Manual (latch output) start/restart
- Standard brackets included
- External Device Monitoring (EDM), scan codes, aux output, reduced resolution, and fixed blanking
- Cascading, ESD-Safe and integral muting models available

Cascade Capable

• Low-profile compact package for smaller production machines

• Threaded inserts for end-mount brackets

End-to-end sensing design (no blind zone)

EZ-SCREEN LP

Sturdy aluminum housing

Bi-color red/green status indicator shows if power is applied, and if the safety outputs are ON or OFF

Diagnostic display indicates the total number of blocked beams or specific error conditions

Intuitive bi-color red/green alignment and blocked zone indicator lights

"RD" Removable Disconnect Pigtail connection

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SLC4 Models

Family	System Type		Resolution	Defined Area	Termination
SLC4	**P**		**14**	— **160**	**P44**

P = Pair (Emitter and Receiver)
E = Emitter only
R = Receiver only

14 = 14 mm
24 = 24 mm

160 = 160 mm
240 = 240 mm
320 = 320 mm

P4 = 300 mm pigtail, 4-Pin M12 QD (individual Emitter or Receiver models)
P44 = 300 mm pigtail, 4-Pin M12 QD pigtails (Pair)

Challenge

- Protect small machine openings without restricting operator's normal motion
- Simple mounting and machine integration
- Resist damage from contact with parts being loaded/unloaded

Solution

- Compact 14 mm resolution for finger protection in lengths as short as 160 mm
- Versatile end brackets allow for simple mounting in tight spaces
- Tough polycarbonate shell with sturdy aluminum internal housing

LP Basic Models

Family	System Type		Resolution		Defined Area		Termination
SLPVA	**P**		**14**	—	**410**		

System Type:
P = Pair (Emitter and Receiver)
E = Emitter only
R = Receiver only

Resolution:
14 = 14 mm
25 = 25 mm

Defined Area:
270 = 270 mm
410 = 410 mm
550 = 550 mm
690 = 690 mm

Termination:
Blank = No pigtail, RD connection

"RD" to M12 Pigtail
Euro-Style M12 Male QD to LP Custom "RD" Connector

DELPE-51D (5-pin)
0.3 m (1 ft)

DELPE-81D (8-pin)
0.3 m (1 ft)

LP Models

Family	Cascade	System Type	Resolution		Defined Area	Connection
SLP	**C**	**P**	**14**	—	**410**	**P88**

Cascade:
C = Cascade*
Blank = Standard

System Type:
P = Pair (Emitter and Receiver)
E = Emitter only
R = Receiver only

Resolution:
14 = 14 mm
25 = 25 mm

Defined Area:
270 = 270 mm**   **830** = 830 mm
410 = 410 mm   **970** = 970 mm
550 = 550 mm   **1110** = 1110 mm
690 = 690 mm   **1250** = 1250 mm

Connection:
P8 = 300 mm pigtail, 8-Pin M12 QD
(individual Emitter or Receiver models)
P88 = 300 mm pigtail, 8-Pin M12 QD
(on BOTH Emitter and Receiver models)
Blank = no pigtail, RD connection
(for RDLS-8..D or RDLS-5..D cordset)

* 8-pin Connection required for cascade models and to enable EDM, Aux Output and Reset features

** Not available for cascading

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Connection Options

8-Pin

SLP.. - ...
with RDLS-8..D

RD Cordsets

RDLP-815D	**RDLP-875**
4.6 m (15.1')	23 m (75.5')
RDLP-825D	**RDLP-8100**
8 m (26.2')	30.5 m (100.1')
RDLP-850D	
15.3 m (50.2')	

SLP.. - ...P88
with QDE-8..D

8-Pin M12/ Euro-Style

QDE-815D	**QDE-875D**
4.5 m (15')	22.8 m (75')
QDE-825D	**QDE-8100D**
7.6 m (25')	30.4 m (100')
QDE-850D	
15.2 m (50')	

SLP.. - ...P88 with
CSB-M128..M128..
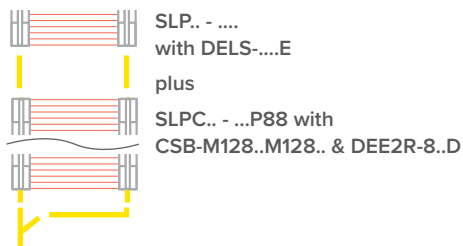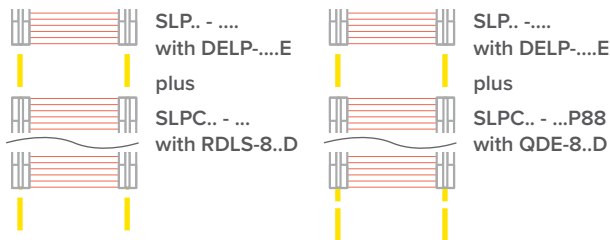**& DEE2R-8..D**

8-Pin Male M12 to Dual 8-Pin Female M12 Euro-Style Splitter

CSB-M1280M1280
No trunk/ no branches
CSB-M1281M1281
0.3 m (1') trunk/2 x 0.3 m (1') branches
CSB-M1288M1281
2.44 m (8') trunk/2 x 0.3 m (1') branches
CSB-M12815M1281
4.57 m (15') trunk/2 x 0.3 m (1') branches
CSB-M12825M1281
7.62 m (25') trunk/2 x 0.3 m (1') branches

8-Pin M12/Euro-Style Double-Ended

DEE2R-81D	**DEE2R-830D**
0.3 m (1')	9.1 m (30')
DEE2R-83D	**DEE2R-850D**
0.9 m (3')	15.2 m (50')
DEE2R-88D	**DEE2R-875D**
2.5 m (8')	22.9 m (75')
DEE2R-812D	**DEE2R-8100D**
3.6 m (12')	30.5 m (100')
DEE2R-815D	
4.6 m (15')	
DEE2R-825D	
7.6 m (25')	

5-Pin

SLLP.. - ...P55
with QDE-5..D

5-Pin M12/ Euro-Style

QDE-515D	**QDE-575D**
4.5 m (15')	22.8 m (75')
QDE-525D	**QDE-5100D**
7.6 m (25')	30.4 m (100')
QDE-550D	
15.2 m (50')	

SLP.. - ...P55 with
CSB-M125..M125..
& DEE2R-5..D

5-Pin Male M12 to Dual 5-Pin Female M12 Euro-Style Splitter

CSB-M1250M1250
No trunk/ no branches
CSB-M1251M1251
0.3 m (1') trunk/2 x 0.3 m (1') branches
CSB-M1258M1251
2.44 m (8') trunk/2 x 0.3 m (1') branches
CSB-M12515M1251
4.57 m (15') trunk/2 x 0.3 m (1') branches
CSB-M12525M1251
7.62 m (25') trunk/2 x 0.3 m (1') branches

5-Pin M12/Euro-Style Double-Ended

DEE2R-51D	**DEE2R-530D**
0.3 m (1')	9.1 m (30')
DEE2R-53D	**DEE2R-550D**
0.9 m (3')	15.2 m (50')
DEE2R-58D	**DEE2R-575D**
2.5 m (8')	22.9 m (75')
DEE2R-512D	**DEE2R-5100D**
3.6 m (12')	30.5 m (100')
DEE2R-515D	
4.6 m (15')	
DEE2R-525D	
7.6 m (25')	

Cascade

SLP.. - ....
with DELP-....E
plus
SLPC.. - ...
with RDLS-8..D

SLP.. -....
with DELP-....E
plus
SLPC.. - ...P88
with QDE-8..D

SLP.. - ....
with DELS-....E
plus
SLPC.. - ...P88 with
CSB-M128..M128.. & DEE2R-8..D

Double-Ended RD to RD Cordsets

DELP-110E	**DELP-118E**	**DELP-1150E**
0.05 m (0.2')	2.5 m (8.2')	15.3 m (50.2')
DELP-111E	**DELP-1115E**	**DELP-1175E**
0.3 m (1')	4.6 m (15.1')	23 m (75.5')
DELP-113E	**DELP-1125E**	**DELP-11100E**
1 m (3.3')	8 m (26.2')	30.5 m (100.1Dave's')

Interface Options

Safety Controllers

XS26-2 XS26-2d XS26-2e XS26-2de	Expandable safety controller supports up to eight I/O modules and programs easily using icon-based software
SC26-2 SC26-2d SC26-2e SC26-2de	Flexible, efficient safety controller has small footprint and programs easily using icon-based software

Safety Modules

UM-FA-9A UM-FA-11A	Monitors solid-state PNP OSSD safety outputs and provides latching (manual reset) function for applications requiring a reset
IM-T-9A IM-T-11A	Interface Modules provide isolated safety output contacts for a solid-state output (OSSD) device. It requires monitoring with the External Device Monitoring (EDM) function
MMD-TA-11B MMD-TA-12B	Muting modules suspend safeguarding during non-hazardous portion of the machine cycle

Alignment Aids for LP and LP Basic

Model	Description
LAT-1-LP	Self-contained visible-beam laser tool for aligning any LP emitter/receiver pair. Includes Laser, LAT Mounting Clip, Reflective Target Material

Model	Description
LPA-LAT-1	Clip On Target for LAT Includes Reflective Target and LAT Mounting Clip
LPA-LAT-2	Replacement clip for attaching LAT and Reflector

Bracket Options

SLC4 Brackets

SLC4A-MBK-10
End Mount Bracket
• Rotation: +/- 20°
• Includes 4 brackets and hardware
• Glass-filled polycarbonate

SLC4A-MBK-11
End Mount Bracket
• Rotation: Fixed
• Includes 4 brackets and hardware
• Glass-filled polycarbonate

SLC4A-MBK-12
Side mount bracket
• Rotation: +/- 15°
• Includes 2 brackets
• Glass-filled polycarbonate

LP Basic & LP Brackets

LPA-MBK-10
End mount bracket
• Rotation: 40°
• Includes 2 brackets and hardware
• 8 ga. steel, black zinc-plated

LPA-MBK-16
Side mount bracket
• Rotation: +15° and -20°
• Includes 1 bracket and hardware
• Black zinc die-cast

LPA-MBK-11
Standard end mount bracket
• Rotation: 360 Degrees
• Includes 2 brackets and hardware
• 14 ga. steel, black zinc-plated
Not included with LP Basic models

LPA-MBK-12
Standard side mount bracket
• Rotation: +10° and -30°
• Includes 1 bracket and hardware
• 14 ga. steel, black zinc-plated
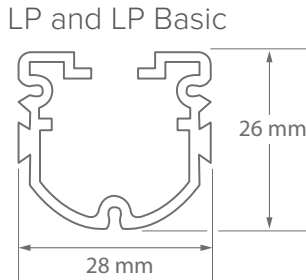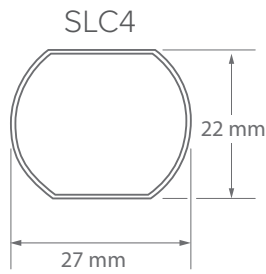Not included with LP Basic models

LP Brackets for Cascade

LPA-MBK-21
Pivoting cascade mounting bracket
• Includes 2 brackets and hardware
• 14 ga. steel, black zinc-plated

Visit our website for additional bracket options and more details about the listed brackets

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Specifications

SLC4

22 mm
27 mm

LP and LP Basic

26 mm
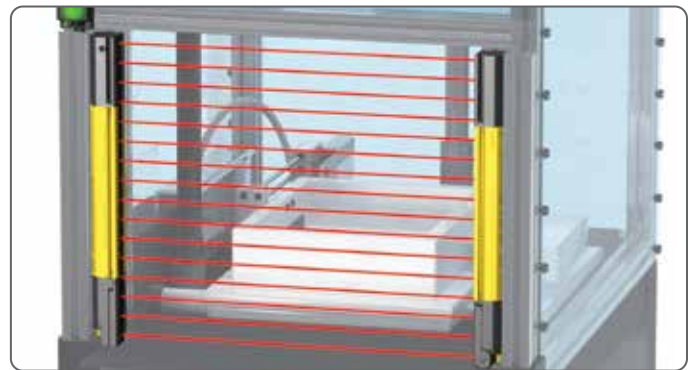28 mm

Operating Range	SLC4: 0.1 to 2 m (4 in to 6.5 ft) LP Basic: 0.1 to 4 m (4 in to 13 ft) LP: 0.1 m to 7 m (4 in to 23 ft)	**Supply Voltage at the Device**	24 V dc ±15% (use a SELV-rated power supply according to EN IEC 60950)
Resolution	SLC4: 14 mm or 24 mm, depending on model LP Basic, LP: 14 mm or 25 mm, depending on model	**Short Circuit Protection**	All inputs and outputs are protected from short circuits to +24 V dc or dc common
Output	SLC4: Two redundant solid-state outputs (OSSD) 24 V dc, 0.3 A max. per OSSD LP Basic, LP: Two redundant solid-state outputs (OSSD) 24 V dc, 0.5 A max. per OSSD	**Electrical Safety Class**	III (per IEC 61140: 1997)
		Safety Rating	Type 4 per IEC 61496-1, -2 Category 4 PL e per EN ISO13849-1 SIL3 per IEC 61508; SIL CL3 per IEC 62061
Environmental Rating	SLC4, LP: IEC IP65 LP Basic: IEC IP54	**Dimensions (mm)**	SLC4: 26.7 W x 22.1 D LP and LP Basic: 26 W x 28 D Height varies by model
Operating Conditions	SLC4: −20 to +55 °C (−4 to +131 °F) LP Basic, LP: 0 to +55 °C (+32 to +131 °F) 95% maximum relative humidity (non-condensing)	**Certifications**	SLC4: CE cULus LISTED LP Basic, LP: CE

Banner offers intuitive, easy-to-use safety light curtains for a wide variety of safety applications

HEAVY-DUTY TYPE 4
Robust safety light curtains for harsh industrial environments.
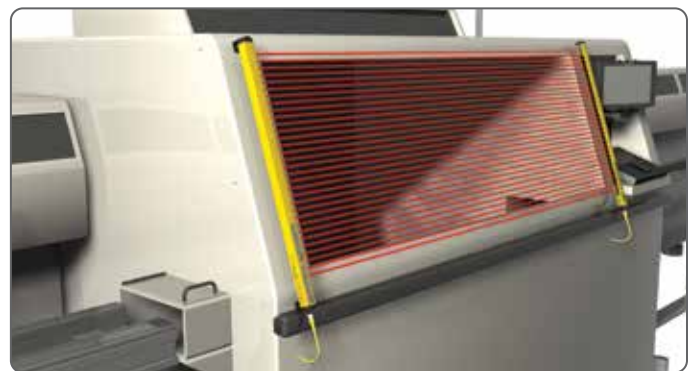

COMPACT TYPE 4
Compact safety light curtains for safety in tight spaces.

PERIMETER GUARDING TYPE 4
One to four beam safety light devices.

TYPE 2
Cost-effective safety light curtain for lower risk applications.