

SLOC4 & 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)

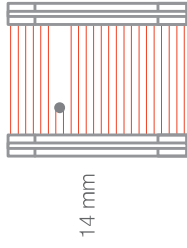


Banner's Line of Compact Light Screens

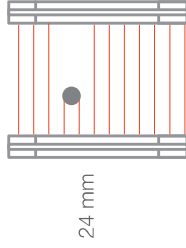
SLC4

- 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

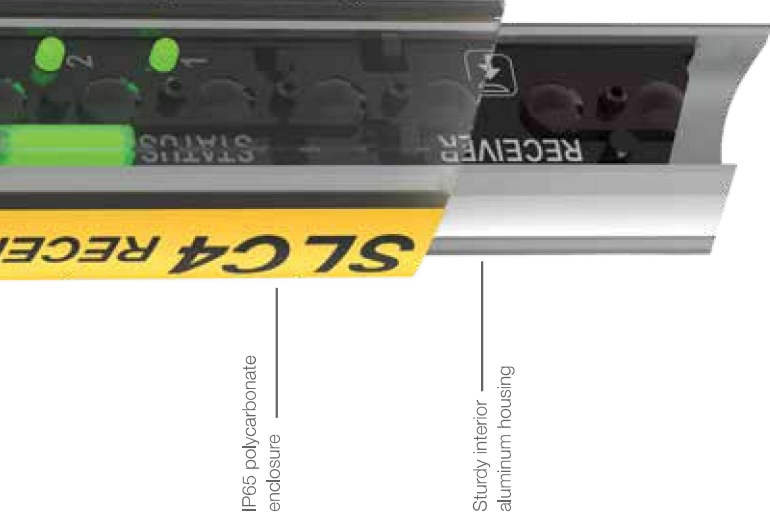
Available in Two Resolutions



Finger detection

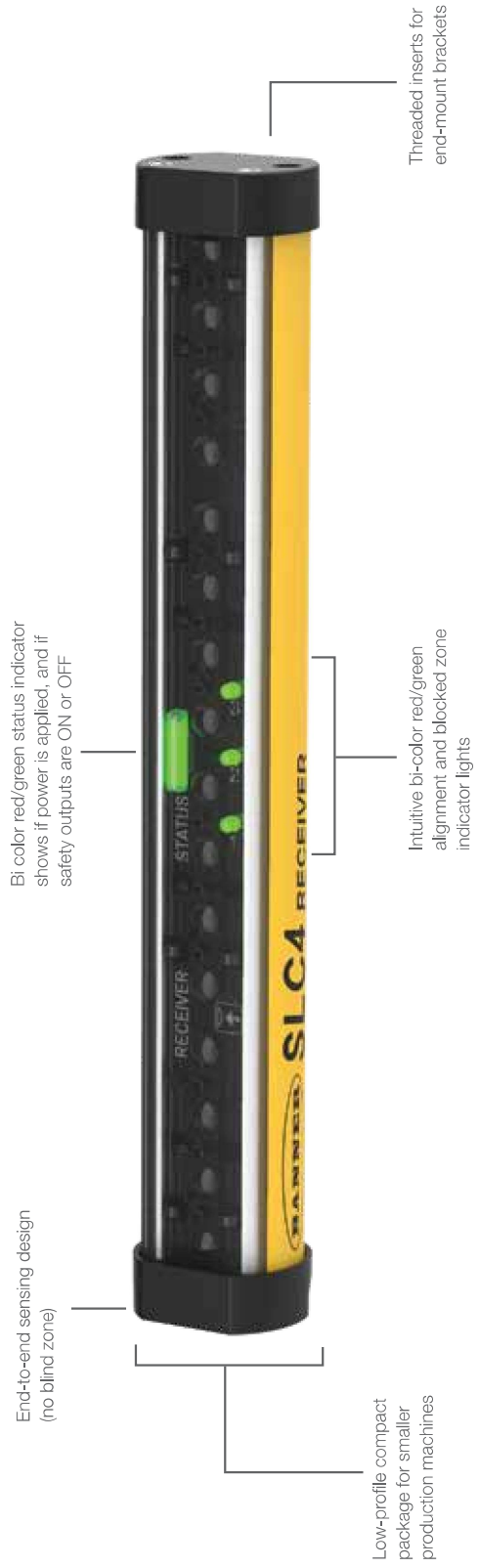


Hand detection



IP65 polycarbonate enclosure

Sturdy interior aluminum housing



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

Low-profile compact package for smaller production machines

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

Threaded inserts for end-mount brackets

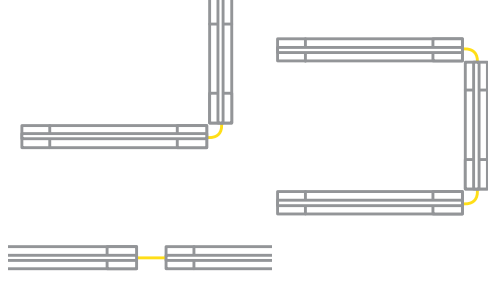
LP Basic

- 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



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

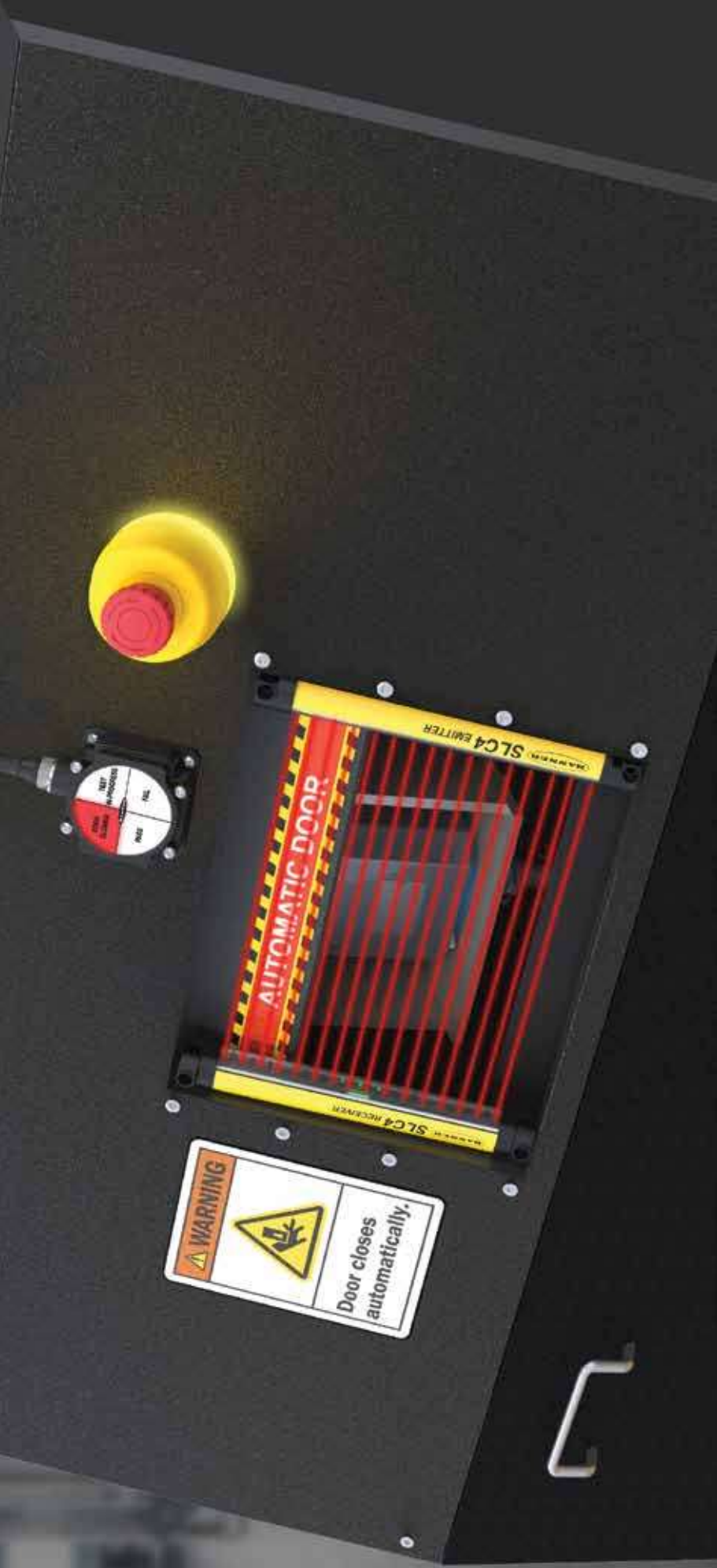
Intuitive bi-color red/green alignment and blocked zone indicator lights

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



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

- Low-profile compact package for smaller production machines
- Threaded inserts for end-mount brackets



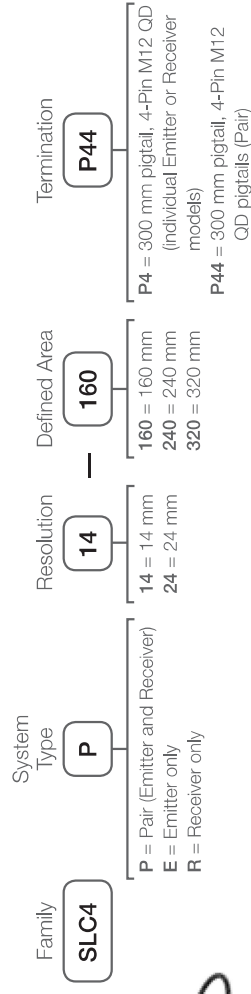
Challenge

- 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

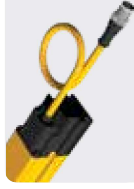
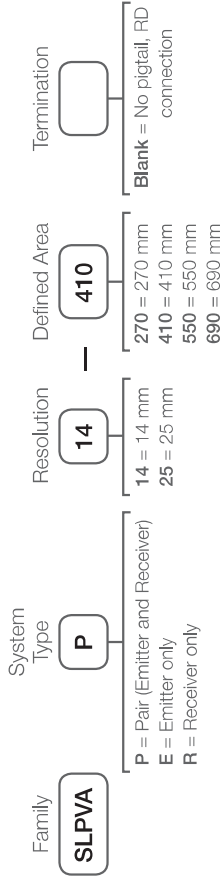
- Compact 14 mm resolution for finger protection in lengths as short as 160 mm
- Versatile end brackets allow for simple mounting in tight spaces
- Tough polycarbonate shell with sturdy aluminum internal housing

SLC4 Models



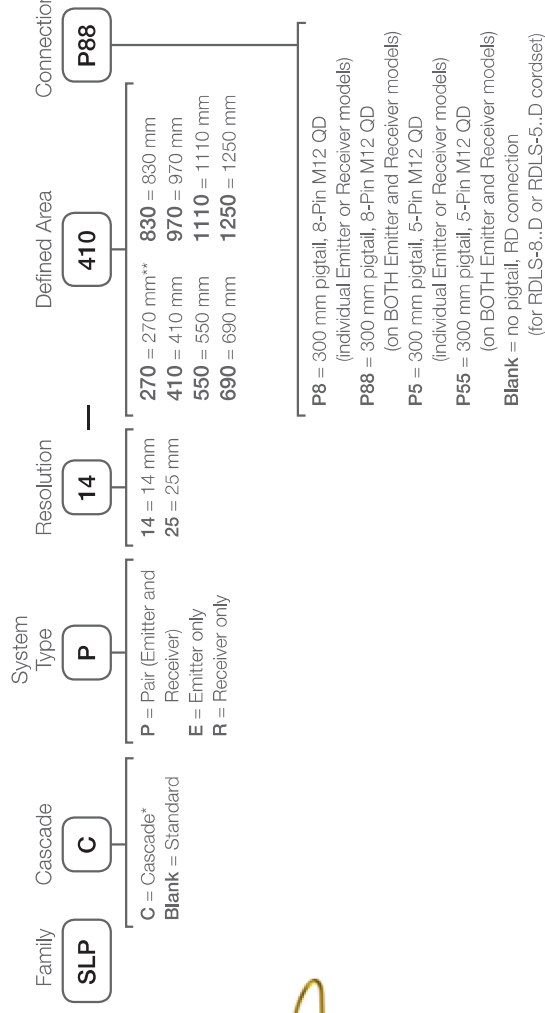
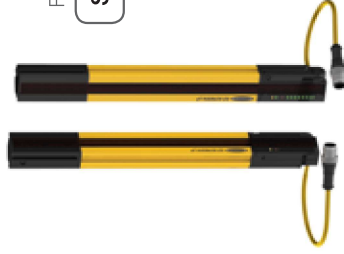


LP Basic Models



"RD" to M12 Pigtail
Euro-Style M12 Male QD to LP Custom "RD" Connector
DELPE-81D (8-pin)
0.3 m (1 ft)

LP Models



* 8-pin Connection required for cascade models and to enable EDM, Aux Output and Reset features
** Not available for cascading

Accessories

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

Safety Controllers

XS26-2



Expandable safety controller supports up to eight I/O modules and programs easily using icon-based software

XS26-2d

XS26-2e

XS26-2de

SC26-2



Flexible, efficient safety controller has small footprint and programs easily using icon-based software

SC26-2d

SC26-2e

SC26-2de

Interface Options

Safety Modules



UM-FA-9A

Monitors solid-state PNP OSSD safety outputs and provides latching (manual reset) function for applications requiring a reset

UM-FA-11A



IM-T-9A

Interface Modules provide isolated safety output contacts for a solid-state output (OSSD) device. It requires monitoring with the External Device Monitoring (EDM) function

IM-T-11A



MMD-TA-11B

Muting modules suspend safeguarding during non-hazardous portion of the machine cycle

MMD-TA-12B

8-Pin Connections



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')	



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')	



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

CSB-M1280M1280	DEE2R-810D
No trunk/ no branches	0.3 m (1')
CSB-M1281M1281	DEE2R-83D
0.3 m (1') trunk/2 x 0.3 m (1') branches	0.9 m (3')
CSB-M1288M1281	DEE2R-88D
2.44 m (8') trunk/2 x 0.3 m (1') branches	2.5 m (8')
CSB-M12815M1281	DEE2R-812D
4.57 m (15') trunk/2 x 0.3 m (1') branches	3.6 m (12')
CSB-M12825M1281	DEE2R-815D
7.62 m (25') trunk/2 x 0.3 m (1') branches	4.6 m (15')
	DEE2R-825D
	7.6 m (25')

5-Pin Connections



5-Pin M12/ Euro-Style

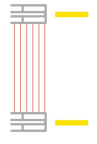
QDE-515D	QDE-575D
4.5 m (15')	22.8 m (75')
QDE-525D	QDE-5100D
7.6 m (25')	30.4 m (100')
QDE-550D	
15.2 m (50')	



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

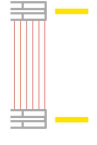
CSB-M1250M1250	DEE2R-510D
No trunk/ no branches	0.3 m (1')
CSB-M1251M1251	DEE2R-53D
0.3 m (1') trunk/2 x 0.3 m (1') branches	0.9 m (3')
CSB-M1258M1251	DEE2R-58D
2.44 m (8') trunk/2 x 0.3 m (1') branches	2.5 m (8')
CSB-M12515M1251	DEE2R-512D
4.57 m (15') trunk/2 x 0.3 m (1') branches	3.6 m (12')
CSB-M12525M1251	DEE2R-515D
7.62 m (25') trunk/2 x 0.3 m (1') branches	4.6 m (15')
	DEE2R-525D
	7.6 m (25')

Cascade Connections



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')	



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')	



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

CSB-M1280M1280	DEE2R-810D
No trunk/ no branches	0.3 m (1')
CSB-M1281M1281	DEE2R-83D
0.3 m (1') trunk/2 x 0.3 m (1') branches	0.9 m (3')
CSB-M1288M1281	DEE2R-88D
2.44 m (8') trunk/2 x 0.3 m (1') branches	2.5 m (8')
CSB-M12815M1281	DEE2R-812D
4.57 m (15') trunk/2 x 0.3 m (1') branches	3.6 m (12')
CSB-M12825M1281	DEE2R-815D
7.62 m (25') trunk/2 x 0.3 m (1') branches	4.6 m (15')
	DEE2R-825D
	7.6 m (25')

Alignment Aids for LP and LP Basic



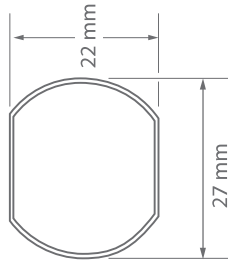
Model	Description	Model	Description
LAT-1-LP	Self-contained visible-beam laser tool for aligning any LP emitter/receiver pair. Includes Laser, LAT Mounting Clip, Reflective Target Material	LPA-LAT-1	Clip On Target for LAT Includes Reflective Target and LAT Mounting Clip
		LPA-LAT-2	Replacement clip for attaching LAT and Reflector

Double-Ended RD to RD Cordsets

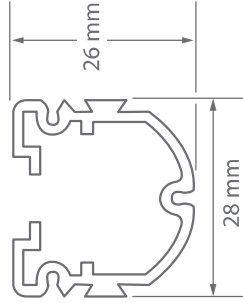
DELP-110E	DELP-118E
0.05 m (0.2')	2.5 m (8.2')
DELP-111E	DELP-115E
0.3 m (1')	4.6 m (15.1')
DELP-113E	DELP-1125E
1 m (3.3')	8 m (26.2')
	DELP-1150E
	15.3 m (50.2')
	DELP-1175E
	23 m (75.5')
	DELP-11100E
	30.5 m (100.1Dave's')

Specifications

SLC4



LP and LP Basic



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)

Resolution

SLC4: 14 mm or 24 mm, depending on model
LP Basic, LP: 14 mm or 25 mm, depending on model

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

Environmental Rating

SLC4, LP: IEC IP65
LP Basic: IEC IP54

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)

Supply Voltage at the Device

24 V dc \pm 15% (use a SELV-rated power supply according to EN IEC 60950)

Short Circuit Protection

All inputs and outputs are protected from short circuits to +24 V dc or dc common

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

Dimensions (mm)

SLC4: 26.7 W x 22.1 D
LP and LP Basic: 26 W x 28 D
Height varies by model

Certifications



Banner offers intuitive, easy-to-use safety light screens 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.



PN 205109 rev. A

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