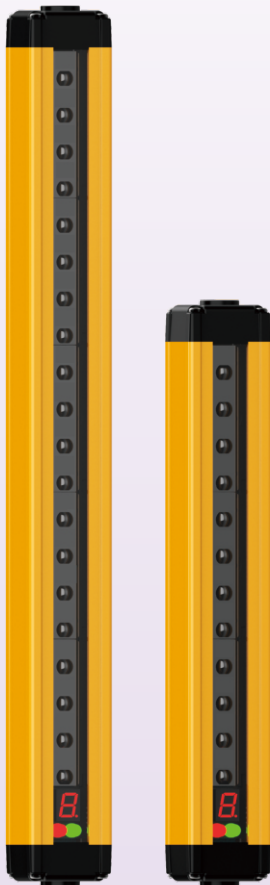




SLC Series Safety Light Curtain



Product features

The SLC series light curtain is a Class 4 safety light curtain that complies with international industrial safety standards, PLe, SIL3 mechanical safety level, and EN/IEC61496-1/-2 Type4 safety level. Providing customers with a safe workplace has the following advantages:

◆ CPU self-check

The SLC light curtain adopts CPU self-inspection, which ensures that it does not send error signals to the controlled equipment in case of self-failure (such as out of sync light source, insufficient light source intensity, error in the projection drive circuit, error in the main control circuit, cable problem, and error in the receiving drive circuit).

◆ Dual independent OSSD output

In order to pursue better safety in terms of output, dual independent redundant outputs have been adopted, providing high safety in automatic fault prevention. They can directly drive safety relays and safety PLCs (to meet the requirements of safety level standards, please use the correct number of control outputs to form the system).

◆ External relay contact monitoring (EDM) function

When the output signal of the safety light curtain needs to be connected to the customer's ordinary relay/contacter equipment, in order to ensure the safety of the entire system, the SLC safety light curtain has an EDM function that monitors the "external relay contact status" to prevent the loss of safety protection function caused by external relay bonding failure.

◆ Test functionality

A test function is provided at the transmitter end, which can simulate the shading state of the light curtain to achieve automatic remote light curtain detection.

◆ Lock reset function

Once the light curtain has an abnormality during operation, the light curtain immediately enters the closed state until the abnormality is lifted. A lock reset function is provided on the receiving side and applied to fully automatic line or large area position protection to ensure safe start-up.

◆ Pulse test

Self-diagnosis of dual-output circuit, forced and transient shutdown (spontaneous self-receiving) with a short periodic pulse (does not affect operation) If a shutdown pulse occurs, no feedback, the host turns off the OSSD output to ensure safety.

◆ Floating shielding

Preventing the material from moving and blocking the beam can allow small objects to pass smoothly while ensuring safety, improving production efficiency and production safety. (via software settings)

◆ Fixed shielding

The optical axis blocked by the material or the table that stays in the beam for a long time fails, and the optical axis other than the material occlusion works normally. (via software settings)

◆ Bypass function (by pass)

This function works with two external input signals to pass the difference between people and materials. It allows the material on the line to pass through the light curtain smoothly, while the passage of people is protected.

◆ Optical communications and dedicated optical systems

It adopts infrared light communication and special optical system, with strong anti-interference ability - it has good anti-interference ability for electromagnetic signals, strobe lights, welding arcs and surrounding light sources.

◆ Frequency selection function

Adjacent light curtains can be set to different frequencies to prevent same-frequency optical interference.

◆ Easy maintenance

Through the cooperation of 7-segment digital and LED light indication, it informs the user of the location of the light curtain fault, the cause of the fault, and easily grasps the working status and fault status of the safety light curtain.



◆ Overload protection and short-circuit protection

When the safety light barrier output is overloaded or short-circuited, the light barrier will enter a protective state and the light barrier safety system will be turned off.

◆ Self-test

Self-tests are performed when the power is turned on (within 2 seconds) to confirm that there is no fault, and self-tests are periodically performed during normal operation (reaction time).

➤ Ordering information

7.5	SLC	0180	—	E	023		
Beam Spacing : 7.5mm 15mm 30mm	SLC Safety Light Curtain	Protection height (7.5 pitch) : (N+1)×spacing Lens height (15, 30 pitch) : (N-1)×spacing+10		:Output mode: E:Transmitting unit NR:NPN type output PR:PNP type output N:a pair of NPN type light curtain P:a pair of PNP type light curtain	Number of Beam : 4~200	None: automatic reset, no bypass function LP: lock reset, bypass function	Protected Distance: ※ none: 6m default 02: 2m 08: 8m 10: 10m 15: 15m 20: 20m 30: 30m 40: 40m

➤ Example of SLC Model Type

Emitter Unite


SLC
施 莱 格

TYPE:7.5SLC0120-E16
(EMITTER)

• Protection height: **120mm** • Sensible object: **12.5mm**
 • Scanning range: **0.1~6m** • Response time: **≤12ms**
 • Supply voltage: **24VDC±10%** • Power consumption: **≤3W**
 • Protection class: **IP65** • Ambient temp.: **0~+55°C**

10025210001000001

GB CE Type 4/EN61496 Cat.4 PLe/ISO13849




SLC
施 莱 格

TYPE:7.5SLC0120-E16LP
(EMITTER)

• Protection height: **120mm** • Sensible object: **12.5mm**
 • Scanning range: **0.1~6m** • Response time: **≤12ms**
 • Supply voltage: **24VDC±10%** • Power consumption: **≤3W**
 • Protection class: **IP65** • Ambient temp.: **0~+55°C**

10025210025000001

GB CE Type 4/EN61496 Cat.4 PLe/ISO13849



Receiver Unite


SLC
施 莱 格

TYPE:7.5SLC0120-NR16
(RECEIVER)

• Protection height: **120mm** • Sensible object: **12.5mm**
 • Scanning range: **0.1~6m** • Response time: **≤12ms**
 • Supply voltage: **24VDC±10%** • Power consumption: **≤3W**
 • Protection class: **IP65** • Ambient temp.: **0~+55°C**

10025220001000001

GB CE Type 4/EN61496 Cat.4 PLe/ISO13849




SLC
施 莱 格

TYPE:7.5SLC0120-NR16LP
(RECEIVER)

• Protection height: **120mm** • Sensible object: **12.5mm**
 • Scanning range: **0.1~6m** • Response time: **≤12ms**
 • Supply voltage: **24VDC±10%** • Power consumption: **≤3W**
 • Protection class: **IP65** • Ambient temp.: **0~+55°C**

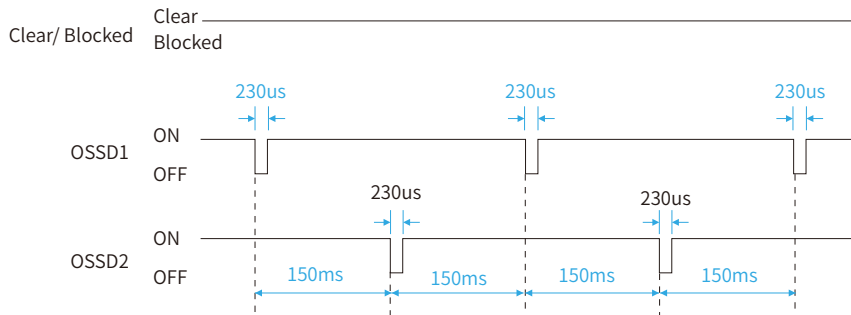
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GB CE Type 4/EN61496 Cat.4 PLe/ISO13849



※The light curtain with the optical axis spacing of 7.5mm does not provide a range of more than 4 meters

SLC safety light curtain OSDD



There are self-diagnosis in OSSDs output of SLC safety light curtain. OSSDs will be turn on when the protection area is clear. during OSSDs turned on period, the controller of SLC will periodically shuts down OSSD1 and OSSD2 in sequence. During the short period of shutdown of OSSD1 or OSSD2, the internal timing control unit of the SLC detects whether the level of OSSD1 or OSSD2 has flipped. If the flip occurs, the corresponding OSSD switch is in normal working state; If the OSSD fails, the system will immediately shut down the two channels of OSSD. At this time, the receiving SLC displays "d." Or "H." to ensure functional safety. Therefore, when the load connected to the SLC is a PLC or an MCU controlled fast intelligent device, it is necessary to filter the self-check pulse in the program.

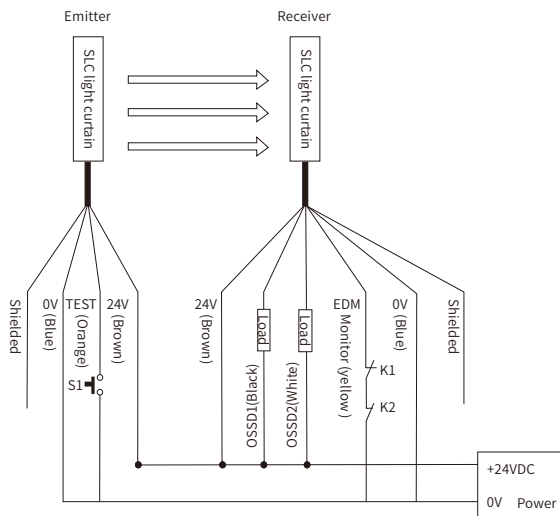
SLC safety light curtain wiring and notes

Name	Color	Description
Emitter	Brown	+24VDC supply voltage, DC 24V
	Blue	GND, 0V of supply
	Orange	TEST testing line, tied to 24VDC or suspended for normal operation
Receiver	Brown	+24VDC supply voltage, DC 24V
	Blue	GND, 0V of supply
	Yellow	EDM external contact status monitoring, connected in series to 0V via the normally closed contacts of the dual-output controlled relay
	Black	Black OSSD1 output 1 (can be directly into PLC, safety relay, ordinary relay needs EDM monitoring)
	White	White OSSD2 output 2 (PLC can be directly selected, safety relay, ordinary relay needs EDM monitoring)
	Green	Shield input B, active high level, bypass function start signal is used with shield input A, 0v is connected when the bypass function is not used
	Pink	Shield input A, active high, bypass function start signal is used with shielded input B, and 0v is connected when the bypass function is not used

Warn

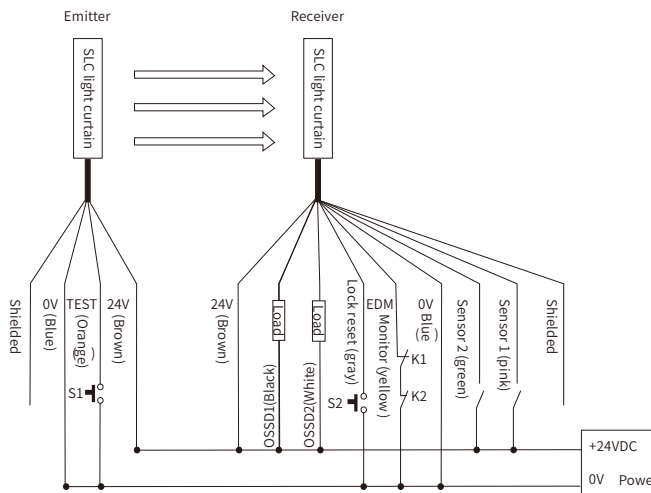
- Please connect the dual outputs to the control security system of the device, such as the order output will not be this security level.
- Please confirm that the wiring is performed when the power is off.
- Please make sure that the change in the power supply voltage does not exceed the rated range.
- Do not run the wire with or within the same line with the high voltage line or power line, this may cause a fault due to induction.
- Do not put the light curtain in direct contact with water, oil, grease or organic solutions (such as thinner).
- Do not expose the light curtain directly to the fluorescence of the quick-start lamp or high-frequency lighting equipment, which will affect the detection performance.
- Power supply
- Avoid dust, dirt and water vapor.
- If possible, the light curtain is installed insulated as much as possible.

SLC NPN Output (Interlock reset and test function works) wiring



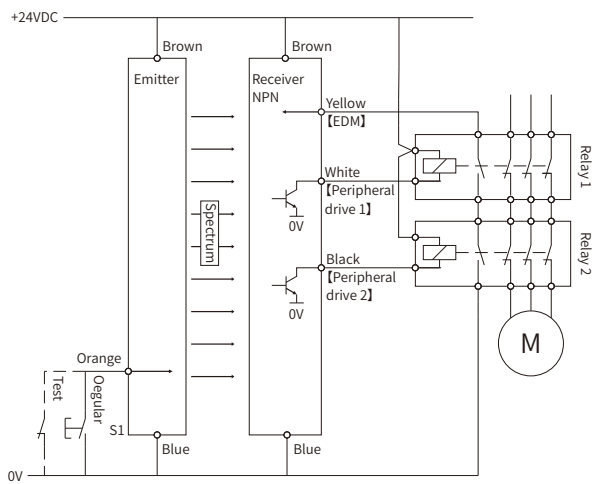
- ※K1, K2: OSSD1, OSSD2 connected safety relay and safety contactor ,plc,etc.
- S1: External system test switch for light curtain(optional,if direct 24V or suspension is not used)
- : If the shielded wire needs to be grounded ensure single point grounding

SLC-LPNPN Output (Interlock reset and test function works)wiring

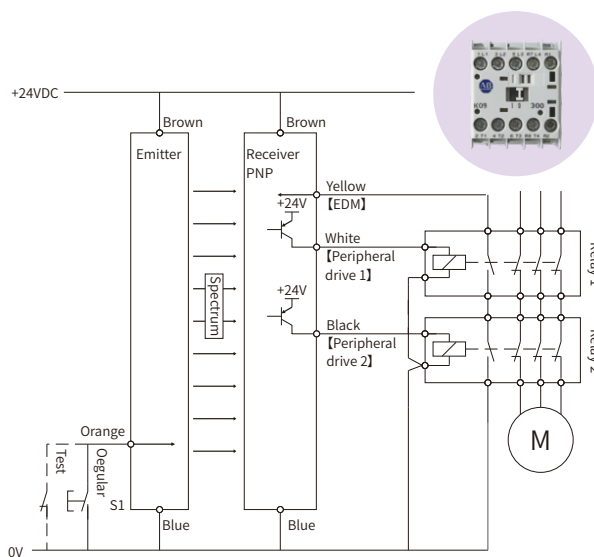


- ※K1, K2: OSSD1, OSSD2 connected safety relay and safety contactor, PLC, etc.
- S1: Test switch of external system to the light shed (optional, if not directly suspended)
- S2: Start/restart lock reset g light curtain switch (optional, if switch is not connected to 0V)
- ◎: Shield wire grounding ensures single point grounding
- ※Sensor 1: Side-signal input 1
- ※Sensor 2: Side signal input 2

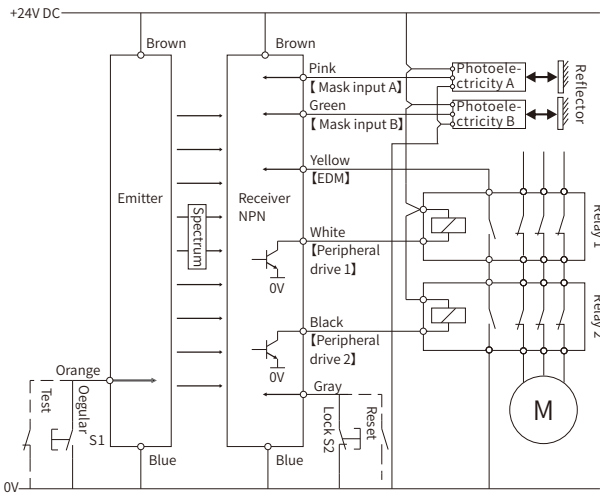
SLC (NPN Type) Connection with dual-Relay



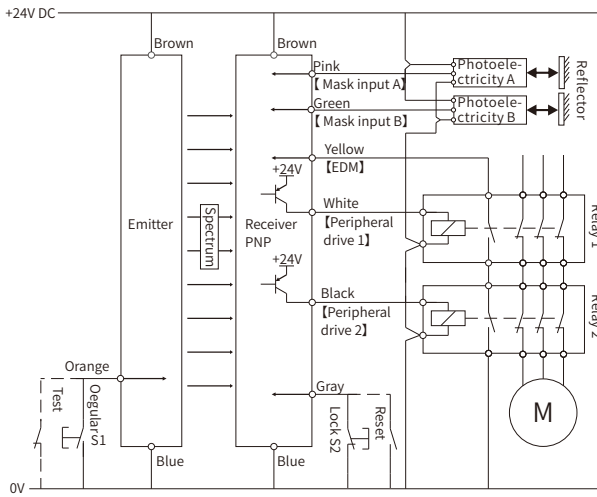
SLC (PNP Type) Connection with dual-Relay



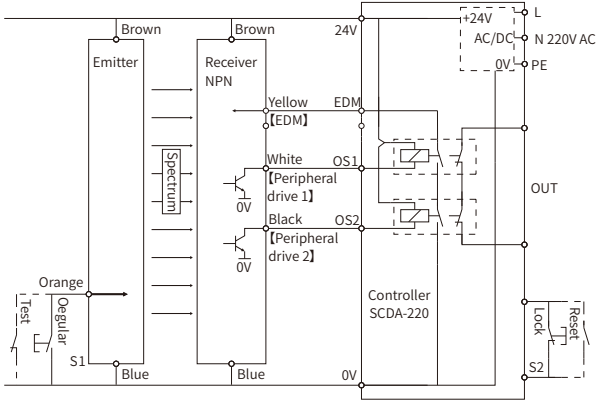
SLC-LP(NPN) and double relay wiring diagram



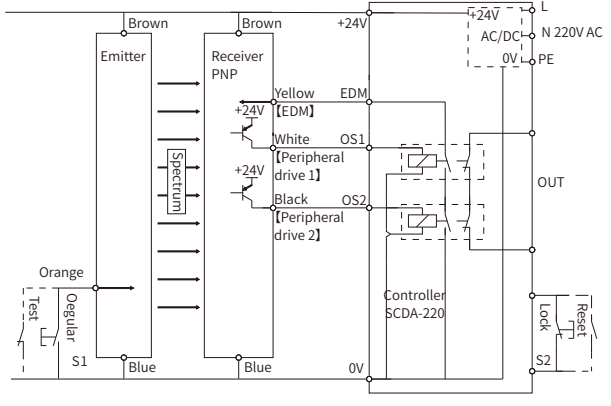
SLC-LP(PNP) and double relay wiring diagram



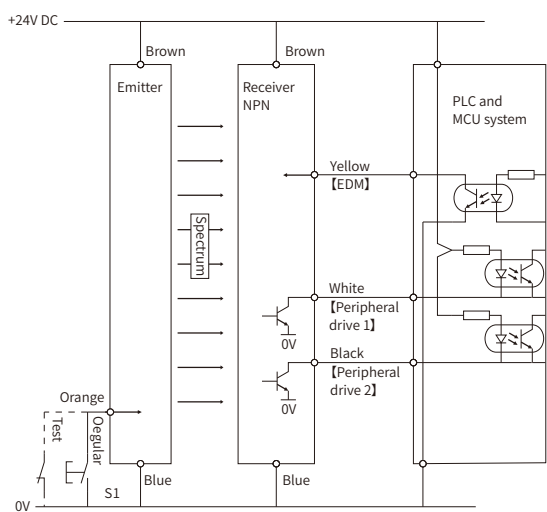
SLC(NPN) and controller connection diagram



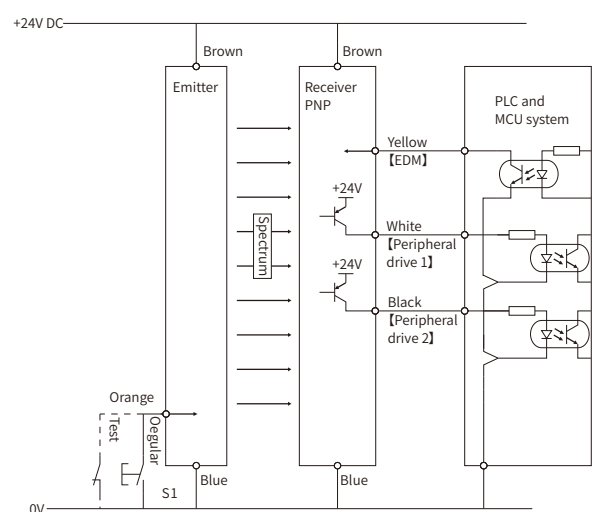
SLC(PNP) and controller connection diagram



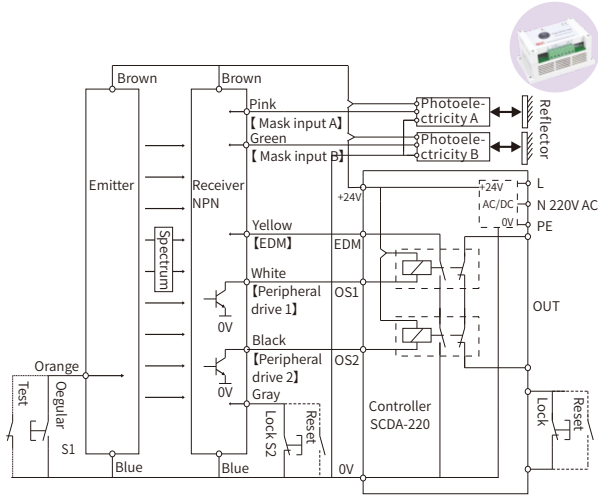
SLC(NPN) and PLC and MCU system wiring diagram



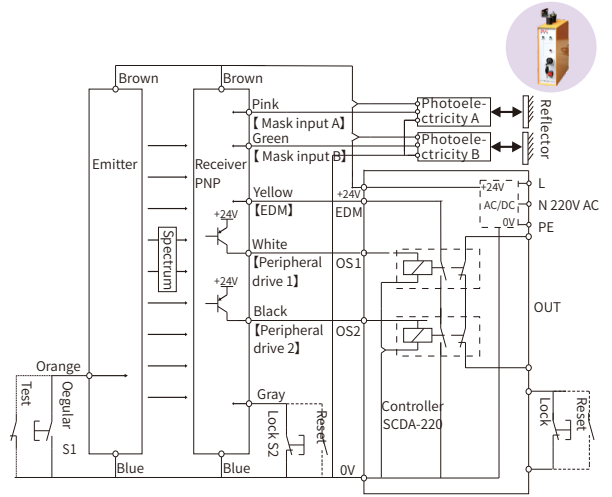
SLC(PNP) and PLC and MCU system wiring diagram



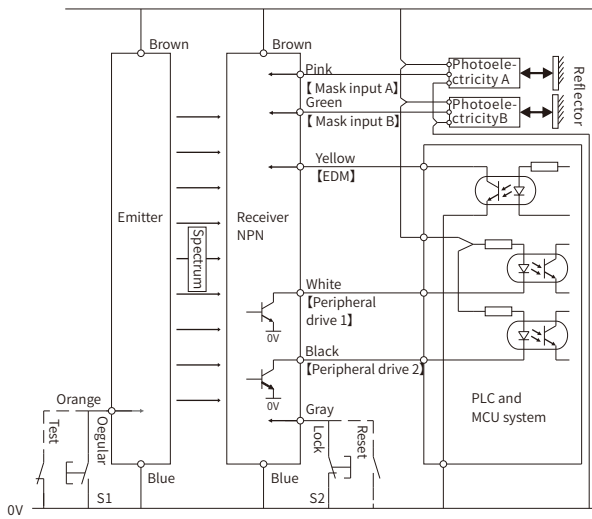
SLC-LP (NPN) and controller connection diagram



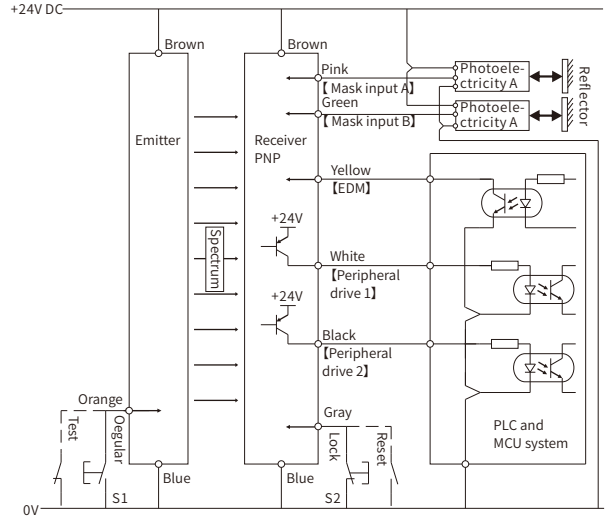
SLC-LP (PNP) and controller connection diagram



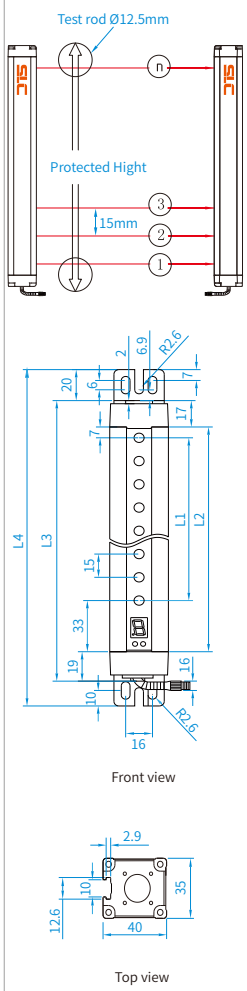
SLC-LP(NPN) and PLC and MCU system wiring diagram



SLC-LP(PNP) and PLC and MCU system wiring diagram



◆ SLC series safety light curtain (optical axis pitch :15mm, resolution :20mm, standard type) and mounting size

Type	Outline	Emitter	PNP type reception	NPN type reception	Number of optical axes	Response time (ms)	Protection height (mm)	Overall dimensions L×W×H (mm)
Thumb type Smallest Detectable Substance 20mm (15mm Optical Axis Space)	 <p>Front view</p> <p>Top view</p> <p>L1: Detection height A=(number of light points -1)×15mm L2: Shell length L2=number of light points×15+25mm L3 light curtain total length L3=L2+36mm L4: light curtain with standard support, total length L4=L3+40mm</p> <p>※ The standard lead length is 225mm. If you need a 3D model drawing, please call the company. Please refer to the support selection for the size of the support</p>	15SLC0115-E08□□	15SLC0115-PR08□□	15SLC0115-NR08□□	8	7.3	135	40×35×181
		15SLC0175-E12□□	15SLC0175-PR12□□	15SLC0175-NR12□□	12	9.0	195	40×35×241
		15SLC0235-E16□□	15SLC0235-PR16□□	15SLC0235-NR16□□	16	10.9	255	40×35×301
		15SLC0295-E20□□	15SLC0295-PR20□□	15SLC0295-NR20□□	20	12.8	315	40×35×361
		15SLC0355-E24□□	15SLC0355-PR24□□	15SLC0355-NR24□□	24	14.5	375	40×35×421
		15SLC0415-E28□□	15SLC0415-PR28□□	15SLC0415-NR28□□	28	16.2	435	40×35×481
		15SLC0475-E32□□	15SLC0475-PR32□□	15SLC0475-NR32□□	32	18.1	495	40×35×541
		15SLC0535-E36□□	15SLC0535-PR36□□	15SLC0535-NR36□□	36	20.0	555	40×35×601
		15SLC0595-E40□□	15SLC0595-PR40□□	15SLC0595-NR40□□	40	21.7	615	40×35×661
		15SLC0655-E44□□	15SLC0655-PR44□□	15SLC0655-NR44□□	44	23.4	675	40×35×721
		15SLC0715-E48□□	15SLC0715-PR48□□	15SLC0715-NR48□□	48	25.3	735	40×35×781
		15SLC0775-E52□□	15SLC0775-PR52□□	15SLC0775-NR52□□	52	27.2	795	40×35×841
		15SLC0835-E56□□	15SLC0835-PR56□□	15SLC0835-NR56□□	56	28.9	855	40×35×901
		15SLC0895-E60□□	15SLC0895-PR60□□	15SLC0895-NR60□□	60	30.6	915	40×35×961
		15SLC0955-E64□□	15SLC0955-PR64□□	15SLC0955-NR64□□	64	32.5	975	40×35×1021
		15SLC1015-E68□□	15SLC1015-PR68□□	15SLC1015-NR68□□	68	34.4	1035	40×35×1081
		15SLC1075-E72□□	15SLC1075-PR72□□	15SLC1075-NR72□□	72	36.1	1095	40×35×1141
		15SLC1135-E76□□	15SLC1135-PR76□□	15SLC1135-NR76□□	76	37.8	1155	40×35×1201
		15SLC1195-E80□□	15SLC1195-PR80□□	15SLC1195-NR80□□	80	39.7	1215	40×35×1261

※ Protection height: The effective height at which the test rod can be detected=(n+1) × Optical axis spacing (mm)

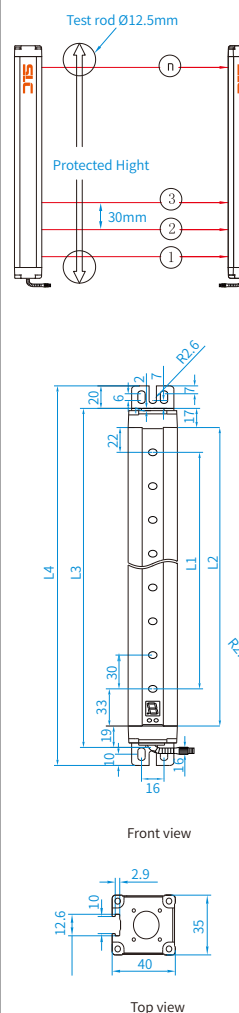
※ Due to the influence of product configuration and manufacturing process, there may be differences in actual product size and weight. Please refer to the actual product as the standard

※ □□ Select the number as the distance, and the customer fills it in according to their needs, such as 02:2 m, 08:8 m, 10:10 m, 15:15 m, 20:20 m, 30:30 m, and 40:40 m

※ n: Number of light points

※ Select a set of light curtain accessories, including: a pair of cable cables, a pair of mounting brackets at both ends, and 4 sliders

◆ SLC series safety light curtain (optical axis pitch :30mm, resolution :35m, standard type) and mounting size

Type	Outline	Emitter	PNP type reception	NPN type reception	Number of optical axes	Response time (ms)	Protection height (mm)	Overall dimensions L×W×H (mm)
Palmar type	 <p>Smallest Detectable Substance 35mm (30mm Optical Axis Space)</p> <p>Front view</p> <p>Top view</p> <p>L1: Detection height A=(number of light points -1)×30mm L2: Shell length L2=number of light points ×30+25mm L3: light curtain total length L3=L2+36mm L4: light curtain with standard support, total length L4=L3+40mm</p> <p>※The standard lead length is 225mm. If you need a 3D model drawing, please call the company. Please refer to the support selection for the size of the support</p>	30SLC0100-E04□□	30SLC0100-PR04□□	30SLC0100-NR04□□	4	5.5	150	40×35×181
		30SLC0160-E06□□	30SLC0160-PR06□□	30SLC0160-NR06□□	6	6.4	210	40×35×241
		30SLC0220-E08□□	30SLC0220-PR08□□	30SLC0220-NR08□□	8	7.3	270	40×35×301
		30SLC0280-E10□□	30SLC0280-PR10□□	30SLC0280-NR10□□	10	8.2	330	40×35×361
		30SLC0340-E12□□	30SLC0340-PR12□□	30SLC0340-NR12□□	12	9.0	390	40×35×421
		30SLC0400-E14□□	30SLC0400-PR14□□	30SLC0400-NR14□□	14	9.9	450	40×35×481
		30SLC0460-E16□□	30SLC0460-PR16□□	30SLC0460-NR16□□	16	10.9	510	40×35×541
		30SLC0520-E18□□	30SLC0520-PR18□□	30SLC0520-NR18□□	18	11.9	570	40×35×601
		30SLC0580-E20□□	30SLC0580-PR20□□	30SLC0580-NR20□□	20	12.8	630	40×35×661
		30SLC0640-E22□□	30SLC0640-PR22□□	30SLC0640-NR22□□	22	13.6	690	40×35×721
		30SLC0700-E24□□	30SLC0700-PR24□□	30SLC0700-NR24□□	24	14.5	750	40×35×781
		30SLC0760-E26□□	30SLC0760-PR26□□	30SLC0760-NR26□□	26	15.4	810	40×35×841
		30SLC0820-E28□□	30SLC0820-PR28□□	30SLC0820-NR28□□	28	16.2	870	40×35×901
		30SLC0880-E30□□	30SLC0880-PR30□□	30SLC0880-NR30□□	30	17.1	930	40×35×961
		30SLC0940-E32□□	30SLC0940-PR32□□	30SLC0940-NR32□□	32	18.1	990	40×35×1021
		30SLC1000-E34□□	30SLC1000-PR34□□	30SLC1000-NR34□□	34	19.1	1050	40×35×1081
		30SLC1060-E36□□	30SLC1060-PR36□□	30SLC1060-NR36□□	36	20.0	1110	40×35×1141
		30SLC1120-E38□□	30SLC1120-PR38□□	30SLC1120-NR38□□	38	20.8	1170	40×35×1201
		30SLC1180-E40□□	30SLC1180-PR40□□	30SLC1180-NR40□□	40	21.7	1230	40×35×1261
		30SLC1240-E42□□	30SLC1240-PR42□□	30SLC1240-NR42□□	42	22.6	1290	40×35×1321
		30SLC1300-E44□□	30SLC1300-PR44□□	30SLC1300-NR44□□	44	23.4	1350	40×35×1381
		30SLC1360-E46□□	30SLC1360-PR46□□	30SLC1360-NR46□□	46	24.3	1410	40×35×1441
		30SLC1420-E48□□	30SLC1420-PR48□□	30SLC1420-NR48□□	48	25.3	1470	40×35×1501
		30SLC1480-E50□□	30SLC1480-PR50□□	30SLC1480-NR50□□	50	26.3	1530	40×35×1561
		30SLC1540-E52□□	30SLC1540-PR52□□	30SLC1540-NR52□□	52	27.2	1590	40×35×1621
		30SLC1600-E54□□	30SLC1600-PR54□□	30SLC1600-NR54□□	54	28.0	1650	40×35×1681
		30SLC1660-E56□□	30SLC1660-PR56□□	30SLC1660-NR56□□	56	28.9	1710	40×35×1741
		30SLC1720-E58□□	30SLC1720-PR58□□	30SLC1720-NR58□□	58	29.8	1770	40×35×1801
		30SLC1780-E60□□	30SLC1780-PR60□□	30SLC1780-NR60□□	60	30.6	1830	40×35×1861
		30SLC1840-E62□□	30SLC1840-PR62□□	30SLC1840-NR62□□	62	31.5	1890	40×35×1921
30SLC1900-E64□□	30SLC1900-PR64□□	30SLC1900-NR64□□	64	32.5	1950	40×35×1981		
30SLC1960-E66□□	30SLC1960-PR66□□	30SLC1960-NR66□□	66	33.5	2010	40×35×2041		
30SLC2020-E68□□	30SLC2020-PR68□□	30SLC2020-NR68□□	68	34.4	2070	40×35×2101		
30SLC2080-E70□□	30SLC2080-PR70□□	30SLC2080-NR70□□	70	35.2	2130	40×35×2161		
30SLC2140-E72□□	30SLC2140-PR72□□	30SLC2140-NR72□□	72	36.1	2190	40×35×2221		
30SLC2200-E74□□	30SLC2200-PR74□□	30SLC2200-NR74□□	74	37.0	2250	40×35×2281		
30SLC2260-E76□□	30SLC2260-PR76□□	30SLC2260-NR76□□	76	37.8	2310	40×35×2341		
30SLC2320-E78□□	30SLC2320-PR78□□	30SLC2320-NR78□□	78	38.7	2370	40×35×2401		
30SLC2380-E80□□	30SLC2380-PR80□□	30SLC2380-NR80□□	80	39.7	2430	40×35×2461		

※Protection height: The effective height at which the test rod can be detected=(n+1) × Optical axis spacing (mm)

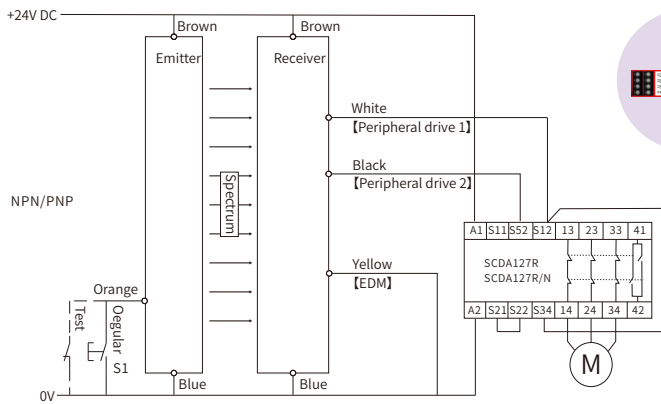
※Due to the influence of product configuration and manufacturing process, there may be differences in actual product size and weight. Please refer to the actual product as the standard

※□□Select the number as the distance, and the customer fills it in according to their needs, such as 02:2 m, 08:8 m, 10:10 m, 15:15 m, 20:20 m, 30:30 m, and 40:40 m

※n: Number of light points

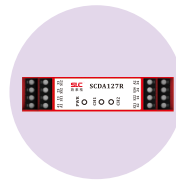
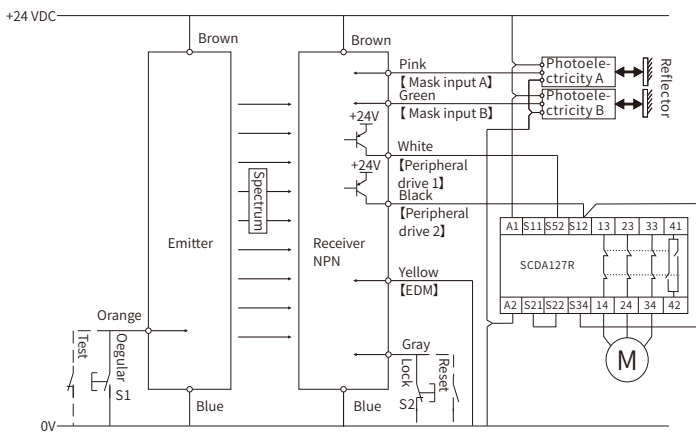
※Select a set of light curtain accessories, including: a pair of cable cables, a pair of mounting brackets at both ends, and 4 sliders

SLC Safety light curtains and relay wiring diagram



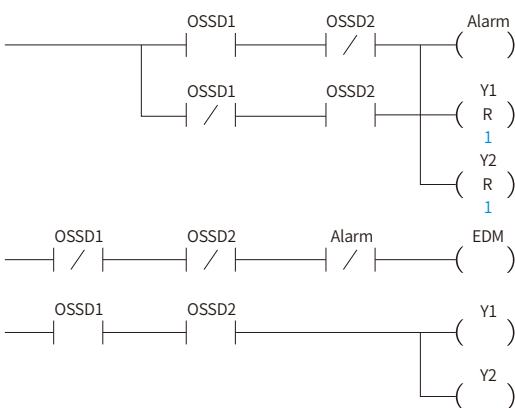
Explanation	
◆	NPN Type Connection with SCDA127R/N
◆	PNP Type Connection with SCDA127R

Wiring diagram of SLC-LP(PNP) and Safety relay module (SCDA127R)



- ※S1: Test switch for external system on light curtain(optional, if not used, directly suspended)
- S2: Start/restart interlock reset raster switch (optional, if no switch is required to connect to 0V)
- ◎: Shield wire grounding ensures single point grounding
- Sensor 1: Bypass signal input 1
- Sensor 2: Bypass signal input 2

The Reference Program of SLC (NPN Type) Connection with PLC



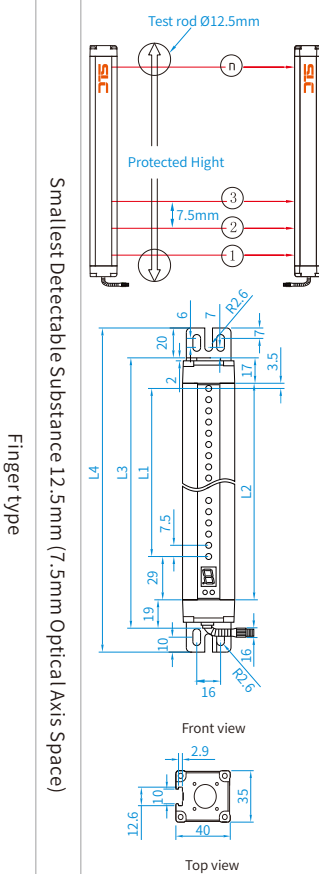
PLC signal logic state truth table

OSSD1 input	OSSD2 input	EDM output	Y1 output	Y2 output	SLC Work State
0	0	1	0	0	SLC blocked, normal State
0	1	0	0	0	Failure
1	0	0	0	0	Failure
1	1	0	1	1	SLC Clear, Normal State

※ OSSD1/2 is a pulse self detection input, which refers to the light curtain output to the PLC signal. When the PLC collects this signal, 1ms filtering or handshake is required;
 EDM refers to the feedback provided by the PLC to the light curtain signal based on the OSSD1/2 input status;
 Y1/Y2 refers to the output signal processed by the PLC after OSSD1/2;
 '0' represents off, '1' represents on.




SLC Model and Selection Guide

◆ SLC safety Light Curtain (Optical Axis Space: 7.5mm, Resolution: 12.5mm, Standard)

Type	Outline	Emitter	PNP type reception	NPN type reception	Number of optical axes	Response time (ms)	Protection height (mm)	Overall dimensions L×W×H (mm)
Finger type		7.5SLC0120-E16□□	7.5SLC0120-PR16□□	7.5SLC0120-NR16□□	16	10.9	127.5	40×35×181
		7.5SLC0180-E24□□	7.5SLC0180-PR24□□	7.5SLC0180-NR24□□	24	14.5	187.5	40×35×241
		7.5SLC0240-E32□□	7.5SLC0240-PR32□□	7.5SLC0240-NR32□□	32	18.1	247.5	40×35×301
		7.5SLC0300-E40□□	7.5SLC0300-PR40□□	7.5SLC0300-NR40□□	40	21.7	307.5	40×35×361
		7.5SLC0360-E48□□	7.5SLC0360-PR48□□	7.5SLC0360-NR48□□	48	25.3	267.5	40×35×421
		7.5SLC0420-E56□□	7.5SLC0420-PR56□□	7.5SLC0420-NR56□□	56	28.9	427.5	40×35×481
		7.5SLC0480-E64□□	7.5SLC0480-PR64□□	7.5SLC0480-NR64□□	64	32.5	487.5	40×35×541
		7.5SLC0540-E72□□	7.5SLC0540-PR72□□	7.5SLC0540-NR72□□	72	36.1	547.5	40×35×601
		7.5SLC0600-E80□□	7.5SLC0600-PR80□□	7.5SLC0600-NR80□□	80	39.7	607.5	40×35×661
		7.5SLC0660-E88□□	7.5SLC0660-PR88□□	7.5SLC0660-NR88□□	88	43.3	667.5	40×35×721
		7.5SLC0720-E96□□	7.5SLC0720-PR96□□	7.5SLC0720-NR96□□	96	46.9	727.5	40×35×781
		7.5SLC0780-E104□□	7.5SLC0780-PR104□□	7.5SLC0780-NR104□□	104	50.5	787.5	40×35×841
		7.5SLC0840-E112□□	7.5SLC0840-PR112□□	7.5SLC0840-NR112□□	112	54.1	847.5	40×35×901
		7.5SLC0900-E120□□	7.5SLC0900-PR120□□	7.5SLC0900-NR120□□	120	57.7	907.5	40×35×961
		7.5SLC0960-E128□□	7.5SLC0960-PR128□□	7.5SLC0960-NR128□□	128	61.3	967.5	40×35×1021
		7.5SLC1020-E136□□	7.5SLC1020-PR136□□	7.5SLC1020-NR136□□	136	64.9	1027.5	40×35×1081
		7.5SLC1080-E144□□	7.5SLC1080-PR144□□	7.5SLC1080-NR144□□	144	68.5	1087.5	40×35×1141
		7.5SLC1140-E152□□	7.5SLC1140-PR152□□	7.5SLC1140-NR152□□	152	72.1	1147.5	40×35×1201
		7.5SLC1200-E160□□	7.5SLC1200-PR160□□	7.5SLC1200-NR160□□	160	75.7	1207.5	40×35×1261
		7.5SLC1260-E168□□	7.5SLC1260-PR168□□	7.5SLC1260-NR168□□	168	79.3	1267.5	40×35×1321
7.5SLC1320-E176□□	7.5SLC1320-PR176□□	7.5SLC1320-NR176□□	176	82.9	1327.5	40×35×1381		
7.5SLC1380-E184□□	7.5SLC1380-PR184□□	7.5SLC1380-NR184□□	184	86.5	1387.5	40×35×1441		
7.5SLC1440-E192□□	7.5SLC1440-PR192□□	7.5SLC1440-NR192□□	192	90.1	1447.5	40×35×1501		
7.5SLC1500-E200□□	7.5SLC1500-PR200□□	7.5SLC1500-NR200□□	200	93.7	1507.5	40×35×1561		


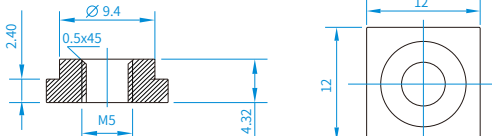



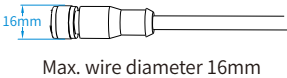

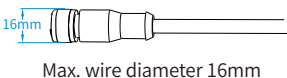
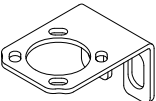
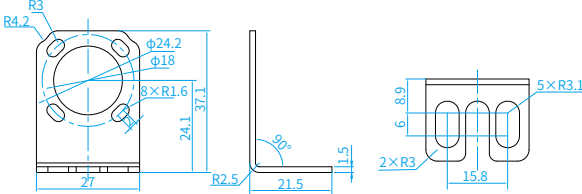
- ※Protection height: The effective height of the test rod can be detected = (n+1) optical axis spacing (mm)
- ※Affected by product configuration and manufacturing process, the actual product size may be different, please refer to the actual product
- ※Standard shipping range is 0.1 to 4 meters (longer range models are not available)
- ※n: Number of light spots
- ※The selection of a set of light curtain accessories includes: a pair of cable lines, a pair of two-end mounting brackets, and 4 sliders

Safety light curtain controller selection

Name	Shapel	Model	Description
Internal Controller		SCDA-220-NC	OUT is connection when work state; Load Capacity 5A, 220VAC; Power: 220VAC
		SCDA-220-NO	OUT is Open when work state; Load Capacity 5A, 220VAC; Power: 220VAC
		SCDA-224NC	Two set Light Curtain input; OUT is connection when work state; Load Capacity 5A, 220VAC; Power: 220VAC
		SCDA-224-NO	Two set Light Curtain input; OUT is Open when work state; Load Capacity 5A, 220VAC; Power: 220VAC
External Controller		SCD-24-SRA (Pumping Only)	In the working state, the OUT closure provides the closed output or the off output (two options). The load capacity is 10A, 220VAC, and one auxiliary output is provided. The load capacity is 500mA, 24VDC, non-safety output, and the external voltage is 24VDC
		SCD-220-SRA (Pumping Only)	In the working state, the OUT closure provides the closed output or the off output (two options). The load capacity is 10A, 220VAC, and one auxiliary output is provided. The load capacity is 500mA, 24VDC, non-safety output, and the external voltage is 220VAC
Safety Relay		SCDA127R	Use with SLC, SLC-LP, SC Serials Safety PNP Output (See safety relay module information for details)
		SCDA127R/N	Use with SLC, SLC-LP, SC Serials Safety NPN Output (See safety relay module information for details)

※The model controller must be purchased separately

Accessories selection Guide (Order Separately)

Name	Shapel	Model	Description	Outline	Qty															
T-shape Bloc		SLCT-01	For Slider		4															
5core 6-pin Cable		SLC5030	6-pin 3m cable, for SLC Receiver		Cable ordering information <table border="1"> <tr> <td>SLC</td> <td>5</td> <td>030</td> </tr> <tr> <td>Product series</td> <td>Number of core</td> <td>Length</td> </tr> <tr> <td></td> <td>3:3 core</td> <td>030:3m</td> </tr> <tr> <td></td> <td>5:5 core</td> <td>060:6m</td> </tr> <tr> <td></td> <td></td> <td>100:10m</td> </tr> </table> Cable length can be customized (purchased separately)	SLC	5	030	Product series	Number of core	Length		3:3 core	030:3m		5:5 core	060:6m			100:10m
SLC	5	030																		
Product series	Number of core	Length																		
	3:3 core	030:3m																		
	5:5 core	060:6m																		
		100:10m																		
3 core 4-pin cable		SLC3050	4-Pin ,5m cable; for SLC emitter Unit or LCM		1															
8 core 8-pin cable		SLC8060	8-Pin ,6m shielded cable;for SLC-LP		2															
Two-end Mounting Bracket		SLCD-02	For SLC safety lightCurtain Two-end		4															

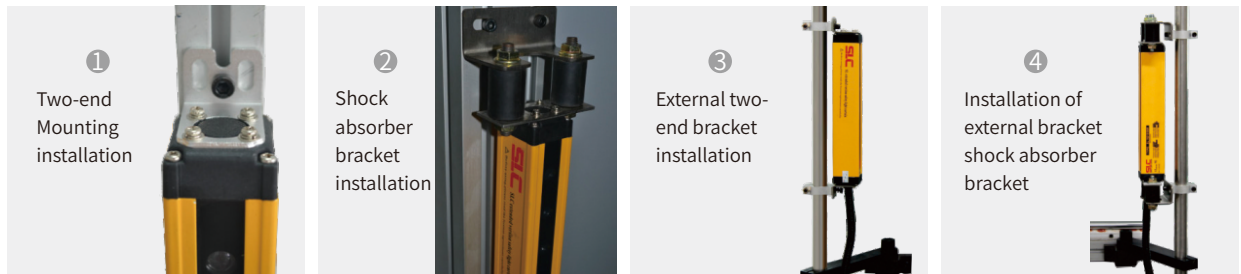
※Affected by product configuration and manufacturing process, the actual product size, weight may be different,please refer to the actual product

Name	Shapel	Model	Description	Outline	Qty
Rotate the mounting brackets two ends		SLCD-02	Apply to SL safety light curtain two-endd mounting installation		4
Shock absorber bracket		SLCW-02	For Vibratory equipment		4
luminum round clip bra		SLCW-04	with the two-end bracket or shock absorber and the external bracket for installation		4
luminum round clip bra		SLCW-05	Withaluminum roundclamp bracket, two-end bracket or shock absorption		2

※The selection bracket must be purchased separately

※Subject to product configuration and manufacturing process, the actual size and weight of the product may be different, please refer to the actual product

SLC intallation





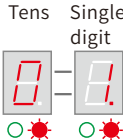


SLC Technical Specification













SLC-LP safety light curtain (7.5/15/30mm)			
Standard	ISO13849-1(PLe,Cat.4)	Optical Parameters Detection height 90~2370mm Detect distance 0.1~6m, (2m、8m、10m、15m、20m、30m、40m customizable) Optical axis 4~80 Resolution 12.5/20/35mm Wavelength 940nm Synchronizati Light synchronization, close to the first beam of the nixie	
	IEC61496-1, EN61496-1, GB/T19436-1(Type4 ESPE); IEC61496-2, EN61496-2, GB/T19436-2(Type4 AOPD);		
Authenticate	CE/GB,EN61496-1/2(Type4),ISO13849-1 (PLe, Cat.4)		
Physical Character			
Cross-sectional Dimension	35mm×40mm		
Installation	L-shaped two-end installation; back slot installation		
Weight	Change With Altitude		
Connection Type	Aviation Plug-in; Direction Outlet		
Electrical Parameters			
Power Supply	24VDC±10%	Frequency selection function	Adjacent gratings can be set to different frequencies to prevent interference from the same frequency light
Power Consumption	5W	Output feedback	EDM external relay status feedback
Response time	See selection table	Enclosure protection class	IP65 (Customizable IP67、IP69)
Safety Output	2 NPN or 2 PNP redundant outputs, short circuit protection, overload protection, pulse testing	Operating temperature	-10~55°C
Manual Reset or Interlock	When the light curtain is working but there is an exception, the light curtain immediately enters the closed state until the exception is lifted. Provides a lock-reset function at the receiving end, and applies to fully automatic lines or large area position protection to ensure safe start-up	Storage temperature	-20~70°C
		Relative humidity	15%~95%
Bypass function (by pass)	This function is combined with two external and incoming signals to pass the difference between people and materials. The material on the line can be smoothly passed through the light curtain, while the person passing is protected.	Impact resistance	10g/20ms
		Response time	See selection table
PFHd	<4.3x10 ⁻⁸	MTTFd	263 year

Description of digital tube and indicator of SLC series safety light curtain

Transmitter display status description:

State	Feature description	Illustrate
	Normal working	Green light on LED digital tube no display
	Test status	Green light on LED digital tube display 1-N
	Supply voltage failure	Red light on LED digital tube display P.
	Select Circuit Fault	Red light on LED digital tube display C.
	Light emitting tube failure	Red light on LED digital tube flashing alternately with tens and one digits

Receiver display status description:

State	Feature description	Illustrate
	Normal working	Green light on LED digital tube display 9
	Bypass mode of operation	Green light on LED digital tube display -
	The first occlusion point	Red light on LED digital tube display 1-N
	The first point of interference	Red light on LED digital tube display 1.-N.
	Synchronization failure	Red light on LED digital tube display 0
	Supply voltage failure	Red light on LED digital tube display P.
	Select Circuit Fault	Red light on LED digital tube display C.
	Peripherals monitor for failures	Red light on LED digital tube display E.
	The output load is overloaded	Red light on LED digital tube display d.
	Output drive pipe fault (power-on detection)	Flashing red light LED digital tube display H.
	Output drive pipe fault (operational detection)	Red light on LED digital tube display H.
	Wait for the reset	Red light on LED digital tube display L.