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**SLC Series –
Safety Light Curtains**
**SLD Series –
Safety Light Grids**

Safe through light





SLC – A safety light curtain for every situation

Easy, fast and reliable

SLC series safety light curtains are ideally suited for implementing optoelectronic protective devices. The SLC series is thereby used to protect operators from dangerous areas or as an access control against unauthorized trespassing.

Features

- Safety light curtain BWS type 4 or type 2
- Beam resolution 14, 20, 30, 40 and 90 mm
- Protection field heights 150 – 1800 mm
- Extensive accessories

Higher equipment availability

- Easy adjustment and stable operation through slim and rigid housing
- Parameterization without PC or DIP switch through simple wiring in the control cabinet
- The integrated Double-Scan technology avoids unwanted shutdown even in harsh operating conditions
- Clear diagnostic and status messages in the 7-segment display ensure shorter downtimes
- Cable lengths up to 100 m with unshielded connection cables ensure greater operational flexibility and reduce costs even under difficult EMC conditions



Finger and hand protection on automated handling systems easily implemented with the intelligent safety relay SNO 4083KM

SLD – the strong safety light grid

Innovative and economical



The SLD series safety light grids are optoelectronic personal protective devices for access protection to hazardous areas on machinery and equipment.

Features

- Safety light grid BWS type 4
- 2-, 3- and 4-beam resolutions
- Also available as an universal system, i.e. transmitter/receiver in a single unit
- High ranges up to 70m can be implemented
- Extensive accessories



Integrated laser alignment aid

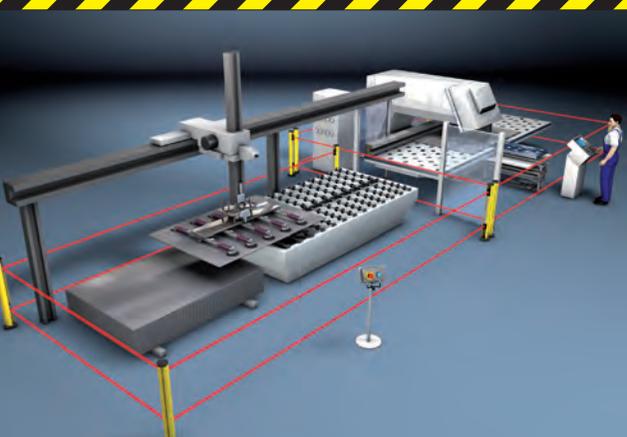


Increased reliability

- Robust aluminum housing in IP67
- Operating temperature range -30 °C to 55 °C permits implementation even in the harshest environments
- Multi-beam scanning avoids unwanted shutdown
- Mutual interference is avoided through the adjustable range reduction when implementing multiple systems
- Parameterization without PC or DIP switch through simple wiring in the control cabinet

Faster during commissioning, operation and service

- The integrated laser alignment aid (optional) permits precise mounting and reduces the startup times of the SLD system
- Robust device columns with spring-loaded base mounting and integrated alignment aid are available for the free-standing implementation
- Muting applications can be easily implemented with **samos** or **samos** PRO



Safely implement simple access protection on equipment with safety relays from the **safe** RELAY series



SLD series

device overview | order numbers

Type				Part no.			
SLD - 4	US	3 - 0 - 00	Example	R1. 6	4	4 . 3	0 00 .0
Product group							
SLD			SLC = R1.6	R1. 6			.0
Type							
	0		No specification (only MIR)		0		.0
	4		Type 4		4		.0
Design type							
	TR		Transmitter		1		.0
	ST		Receiver Standard		2		.0
	SL		Receiver Select		3		.0
	US		Universal Standard		4		.0
	UL		Universal Select		5		.0
	MIR		Universal mirror		6		.0
Number of beams							
		2	2 beams			2	.0
		3	3 beams			3	.0
		4	4 beams			4	.0
Option							
		0	None			0	.0
		1	Laser alignment aid or reflective element ¹⁾			1	.0
Range							
		00	No specification (only US + UL)			00	.0
		06	0.5 – 6 m (only MIR)			06	.0
		08	0.5 – 8 m (only MIR)			08	.0
		50	0.5 – 50 m (only ST + SL)			50	.0
		70	20 – 70 m (only ST + SL)			70	.0

¹⁾ only TR, ST + SL

You can find accessories and additional information in our eShop under <https://eshop.wieland-electric.com>
 We will gladly help you during the selection and commissioning process. You can reach our Technical Support desk at **+49 951 9324-999**

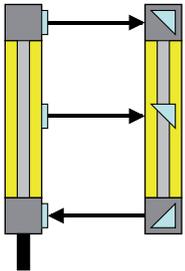


You can will find additional information on the safety controller **samos** PRO in our brochure "Safely integrated"
 Order.No. 0880.1





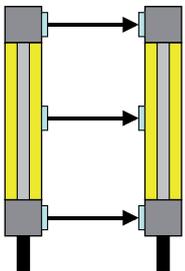
SLD series



SLD Universal – Less cabling expenditure

The safety light grids consist of an integrated SLD universal transmitter/receiver unit and a passive reflector unit without electrical connection.

- 2- and 3-beam systems
- Range 0.5 to 8 m

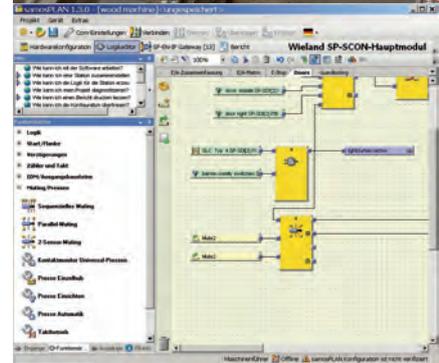


SLD Standard / SLD Select

The safety light grid and SLD Standard and SLD Select each consist of a transmitter and a receiver unit and are thus suitable for highest ranges.

- 2-, 3- and 4-beam systems
- Ranges 0.5 - 50 m and 20 - 70 m

	SLD Standard	SLD Select	SLD Universal
LED display	✓	✓	✓
Multi-scan technology	✓	✓	✓
Range reduction	✓	✓	
Laser alignment aid (optional)	✓	✓	
Automatic start	✓	✓	✓
Manual start / restart interlock		✓	✓
External device monitoring (EDM)		✓	✓
Transceiver system			✓



SLD - Muting functions with *samos*PRO

SLD safety light curtains are ideally suited for monitoring material locks, such as in the packaging industry, in combination with the freely configurable muting function blocks of *samos*PRO, for example in the packaging industry





SLC series

Faster during commissioning, operation and service

- The wide range of SLC products permits optimal and cost-effective design of protective devices
- Easy to connect via standard M12 connection technology
- Fast installation and removal on the machine through a system configuration in the control cabinet
- Selectable transmission channels and range reduction prevent mutual interference
- Simplified planning of safeguards and less type diversity because every SLC safety light curtain from 0 m to the maximum range can be implemented
- The 3-zone alignment indicator reduces assembly time and simplifies adjustment

Matching functions for every protection task

All important, non-contact safety functions on machines and equipment can be implemented using both designs Standard and Select of the SLC series.

	SLC Standard	SLC Select
LED display	✓	✓
Double-scan technology	✓	✓
Range reduction	✓	✓
Selectable transmission channels	✓	✓
7-segment display		✓
Automatic start	✓	✓
Manual start / restart interlock		✓
External device monitoring (EDM)		✓

◀ With 3-Zone alignment indication

Wieland software tools

SISTEMA library



Safe switching on presses with the configurable safety modules **samos** the wear-free long-life outputs



SLC series

device overview | order numbers

Type		Example		Part No.	
SLC -	4TR 1 - 0600			R1.5	4 1 . 0600 .0
Product group					
SLC		SLC = R1.5		R1.5	5
Design type					
	2TR	Type 2, transmitter		1	.0
	2ST	Type 2, receiver Standard		2	.0
	2SL	Type 2, receiver Select		3	.0
	4TR	Type 4, transmitter		4	.0
	4ST	Type 4, receiver Standard		5	.0
	4SL	Type 4, receiver Select		6	.0
Resolution					
	1	14 mm ¹⁾		1	.0
	2	20 mm		2	.0
	3	30 mm		3	.0
	4	40 mm		4	.0
	5	90 mm ²⁾		5	.0
Protective field height					
	0150	150 mm		0150	.0
	0225	225 mm		0225	.0
	0300	300 mm		0300	.0
	0450	450 mm		0450	.0
	0600	600 mm		0600	.0
	0750	750 mm		0750	.0
	0900	900 mm		0900	.0
	1050	1050 mm		1050	.0
	1200	1200 mm		1200	.0
	1350	1350 mm		1350	.0
	1500	1500 mm		1500	.0
	1650	1650 mm		1650	.0
	1800	1800 mm		1800	.0

¹⁾ not for SLC-2 types

²⁾ available from protection field height 600 mm

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EPLAN – Support during projection

EPLAN data and macros, which are an integral component to support automation projects, can be easily downloaded from the Wieland homepage www.wieland-electric.com



You can receive more information on all our products in the field of safety technology of machines in our "Safety first" catalog

Order No. 0860.1



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