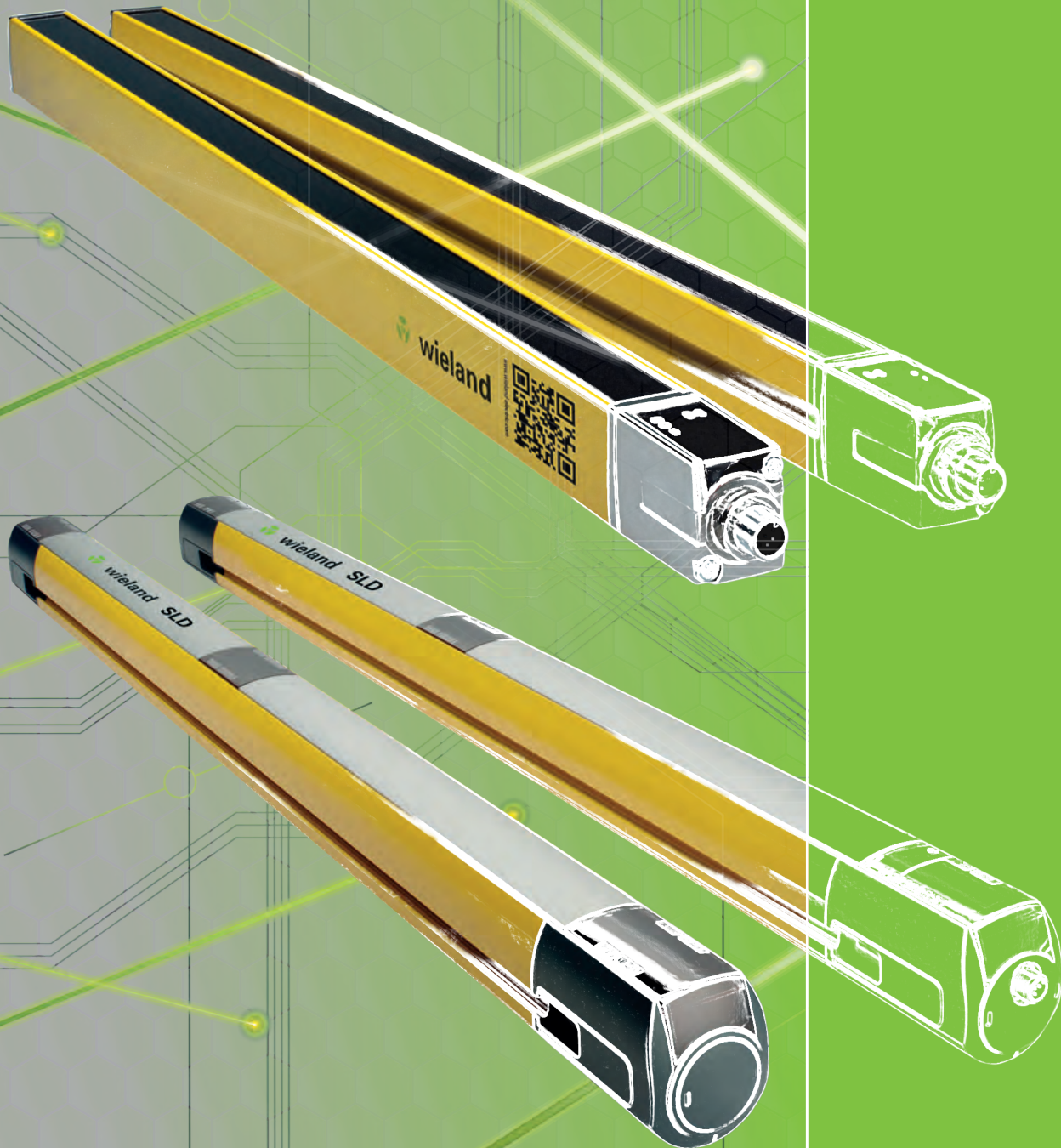safety

wieland

sensor PRO

SLC Series –
Safety Light Curtains

SLD Series –
Safety Light Grids

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 AOPD 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 reduced 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 AOPD 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 70 m can be implemented
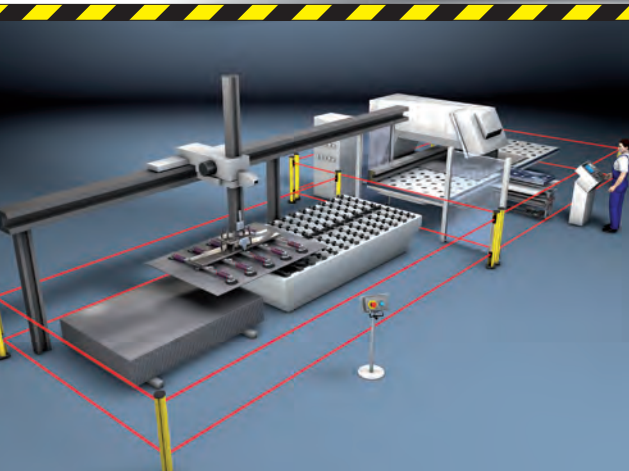- Extensive accessories

Increased reliability

- Solid housing construction 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

Integrated laser alignment aid

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
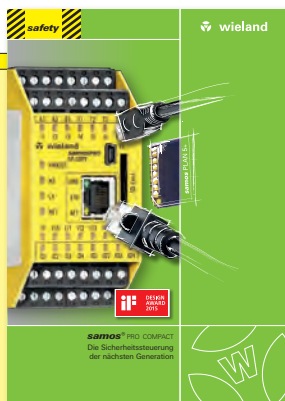
SLD series
device overview | order numbers

	Type					Example	Part No.							
SLD -	4	US	3 -	0 -	00		R1. 6	4	4 .	3	0	00	.0
Product group													.0
SLD						SLD = R1.6	R1. 6						.0
						Type							.0
	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 [1]					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**
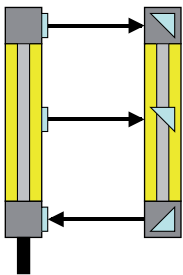

safety wieland

samos® PRO COMPACT
Die Sicherheitssteuerung der nächsten Generation

You can find additional information on the safety controller of the next generation in our brochure "samos®PRO COMPACT"
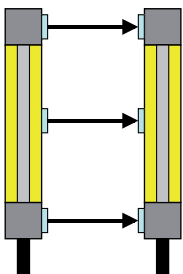
Order-No. 0881.1

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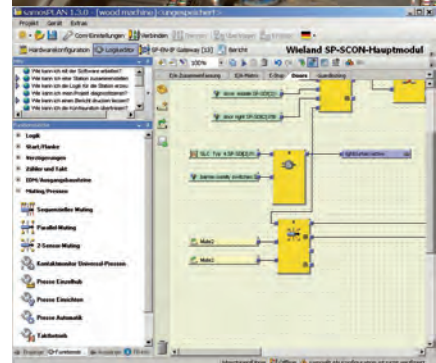
• 2- and 3-beam systems
• Range 0.5 to 8 m

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 Standard	SLD Universal Select
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 COMPACT

SLD safety light grids 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 COMPACT, for example in the packaging industry

SLC series

SIL 3   PL e   SK4

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

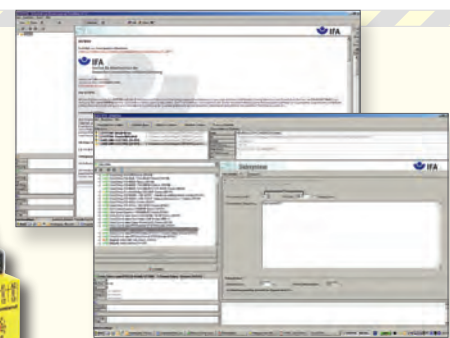All important, non-contact safety functions on machines and equipment can be implemented using both Standard and Select designs of the SLC series.

	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 libary

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

6

SLC series

device overview | order numbers

Type				Example	Part No.					
SLC -	4TR	14 -	0600		R1. 5	4	1 .	0600	.0
				Product group						
SLC				SLC = R1.5	**R1.**	**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						
		14		14 mm [1]			**1**		.0
		20		20 mm			**2**		.0
		30		30 mm			**3**		.0
		40		40 mm			**4**		.0
		90		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**

![Wieland logo] **wieland**

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