

Non-contact safety solution
for gates, industrial &
garage door applications



SAFETY LIGHT CURTAIN LIGI-01

Sold only to industrial specialist companies



WITTSensoric
A Pepperl+Fuchs Brand

Subject to change

LIGI-01 Technical information

- Powerful, for doors up to 10 m wide
- Can be mounted inside door guides, due to door blanking function
- Easy installation, direct mounting or surface mounting clamps
- Extremely robust thanks to fully encapsulated light curtain
- IP 67, resistance to environmental influences
- Optional version for car wash facilities
- For all current door controls
- Automatic light controls
- Integrated service diagnostics
- Highly resistant to extraneous light
- Compact housing, just 16x16 mm
- Extensive range of length and beam distribution variants available
- Lasered nameplate, legible from front

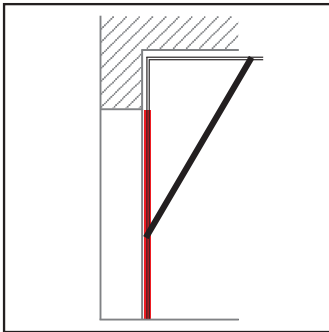
Just like all of Witt's products, the new LIGI has been designed especially for the harsh usage conditions of gates, garage and industrial doors. The highly compact and fully encapsulated door light curtain offers perfect protection against moisture and vibrations in everyday door use. The LIGI features state-of-the-art electronics and even sets standards for the future with its intelligent software. Its compatibility with standard door controllers means that it can be used universally in almost all door systems. Easy installation options allow for fast and uncomplicated installation of the LIGI.

Technical data

Door widths	1.6 - 10 m
Operating voltage	10 - 30 V DC
Current consumption	Transmitter: approx. 30 mA (24 V DC) Receiver: approx. 20 mA (24 V DC)
Power consumption	approx. 1.2 W
Type of light	modulated infrared
OSE output	approx. 950 Hz, alternating signal, short-circuit-proof, protected against reverse polarity
PNP output	100 mA, short circuit-proof, protected against reverse polarity
NPN output	100 mA, short circuit-proof, protected against reverse polarity
Push-pull output	100 mA, short circuit-proof, protected against reverse polarity
SSR semiconductor relay	100 mA, short circuit-proof, potential-free
Response time	< 100 ms
Reactivation time	< 800 ms
Ambient light safety	≥ 100 klux
Housing material	Aluminium profile fully encapsulated in 2 K epoxy resin
Connection	M8-4-pin (OSE/PNP/NPN/Push-pull), M8-6-pin (SSR)
Degree of protection	IP67 as per EN60529
Operating temperature	-20 to +60°C
Storage temperature	-30 to +70°C

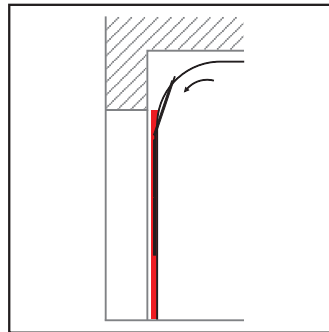
Examples of applications

Up-and-over doors



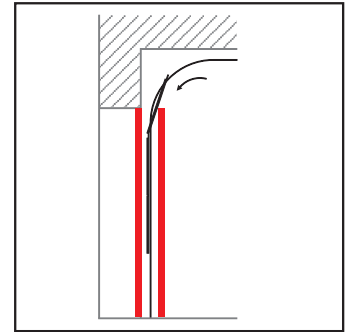
Installation in running plane of leading edge

Sectional doors



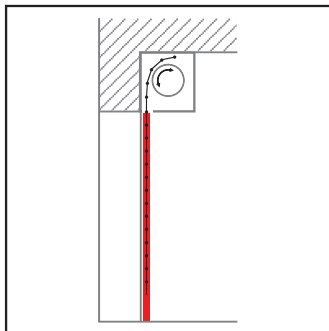
Leading edge protection

Sectional doors



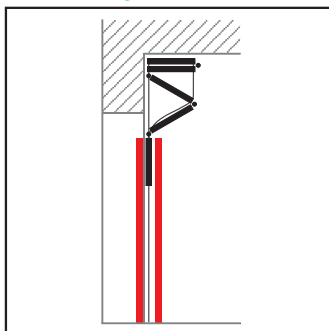
Installation in front of and behind door leaf

Rolling grille doors



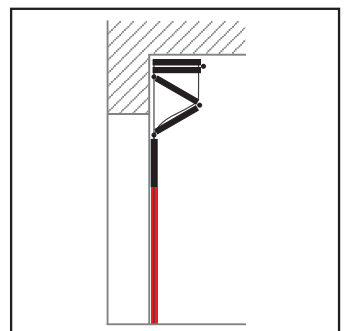
Installation in slide rail

Lifting shutter doors



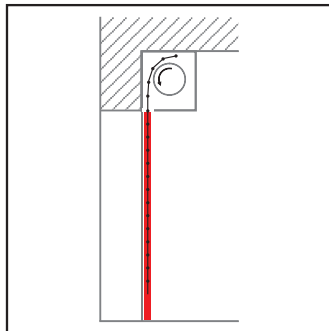
Installation in front of and behind door leaf

Lifting shutter doors



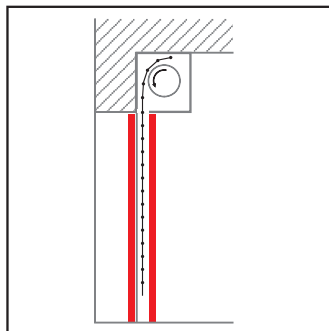
Protection of closing motion thanks to installation in slide rail

Roller shutters/rapid action doors



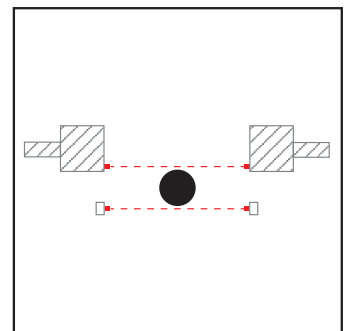
Protection of leading edge thanks to installation in slide rail

Roller shutters/rapid action doors



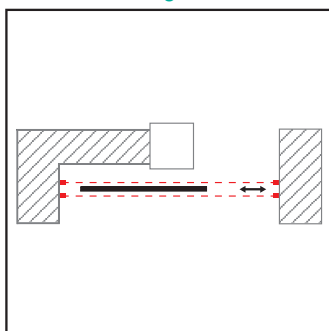
Installation in front of and behind door curtain

Bollards



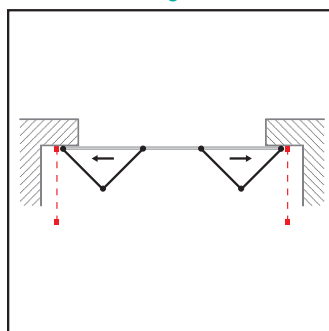
Protection of danger zone for extendable bollards

Sliding Gate



Protection of hazard points

Folding Gate



Protection against pinch points

Basic functions

The LIGI is a very powerful safety light curtain equipped with state-of-the-art microprocessor technology. It comes with a very broad capacity range in regard to parameterisation for optimal adjustment to the door types and installation type. It performs a permanent self-test of the internal electronic system and software.

Diagnosis indicators

Setting parameters and service diagnosis are represented by a flashing code of the indicator LEDs. The LIGI monitors all important internal parameters of the electronic system and the software. In case of an error, a flash code is issued.

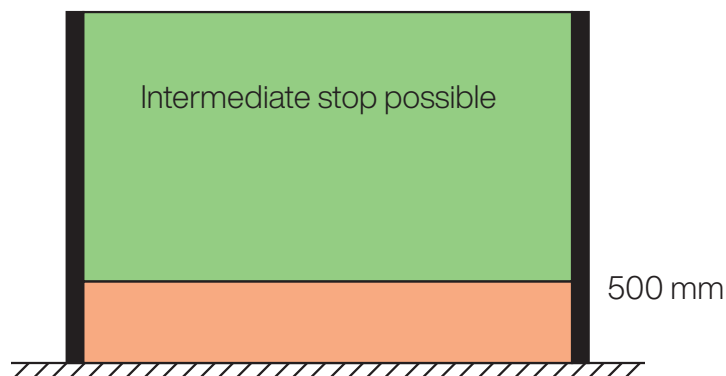
- LED illuminated
- ☆ LED flashing
- ⊗ LED off

Indicator transmitter	Indicator receiver	Description	Error	Solution
⊗ ⊗	⊗ ⊗		no power supply	Check power supply
⊗ ⊗ ⊗ ⊗ ☆ ☆ ☆ ⊗	⊗ ⊗	Yellow LED flashes 3x, long pause	Receiver polarity reversed	Check operating voltage for receiver
	⊗ ⊗ ⊗ ⊗ ☆ ☆ ⊗ ⊗	Red LED flashes 2x, long pause	Short-circuit at output	Check output line, overload, incorrectly connected, line faulty, output in light curtain faulty
⊗ ⊗ ⊗ ⊗ ☆ ☆ ☆ ⊗	⊗ ⊗ ⊗ ⊗ ☆ ☆ ☆ ⊗	LEDs flash 3x, long pause	Fault in sync line	Check sync line, should only be connected between transmitter and receiver
☆ ⊗ ☆ ⊗ ☆ ⊗ ☆ ⊗	☆ ⊗ ☆ ⊗ ☆ ⊗ ☆ ⊗	All LEDs flashing	Internal device error	Light curtain needs to be replaced

Runtime monitoring

To increase operational safety, the LIGI is equipped with a feature which monitors the span of the door movement in the area from the floor up to 500 mm. If a standstill occurs in this range, the switching output is activated and the door can only be moved up. This is the case when the door is closed. The output remains activated in this case until all the light beams of the LIGI are free again.

In the range of 500 mm up to the maximum height of the protected area, the door can also be operated with intermediate stops.

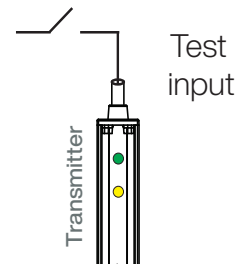


Test inputs / adjustment mode

Function assignment for test input

The test input on the LIGI transmitter is used with time control for two functions.

1. Test of the light curtain using the control
2. Alignment mode through activation of the test input for at least 15s



Switch variants for test input

	T00	T01	T02	T03	T04	T05
Test input switching	OSE output	PNP output	PNP output	NPN output	NPN output	SSR output
10 - 30 V DC	Adjustment > 15s	Operation	Test adjustment > 15s	Operation	Test adjustment > 15s	Test Adjustment > 15s
open	Operation	Test adjustment > 15s	Operation	Operation	Test Adjustment > 15s	Operation
GND	Operation	Test adjustment > 15s	Operation	Test Adjustment > 15s	Operation	Test Adjustment > 15s
Internal test input						

Alignment mode

If the test input is activated for longer than 15s, the LIGI internally measures the OSE signal at the receiver. The light signal quality is indicated through a flashing code of the indicator LEDs on the receiver. This serves to indicate the signal strength to solve problems with the adjustment, pollution or installation. Furthermore, it is also a helpful function to detect errors if service is needed and during the recommended annual inspection.

activated test input	Transmitter	Receiver	Description
0 - 15s			LEDs flash in alternation
> 15s		Output of measured value	
			green LED flashes Insufficient light reserve
			green LED on red LED flashes

* The faster the flashing frequency of the red LEDs, the greater the light reserve.

Troubleshooting if the light reserve is insufficient:

clean the LIGI, check adjustment, possibly check installation behind the panel if the LIGI or the panel has shifted.

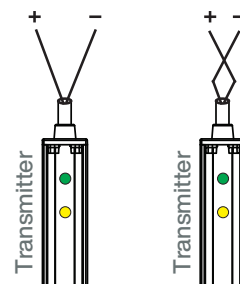
Programmable blanking

Only for order option F05

Switching between blanking/without blanking through reverse polarity of the operating voltage at the transmitter

Blanking/door function F00 and F05

The LIGI is preconfigured with the blanking/door function and can be installed directly in the closing level of the door. In this dynamic mode, the LIGI distinguishes between whether the light beams are systematically interrupted while the door is closing by the door leaf, or if an obstacle penetrates into or is present in the protected area.

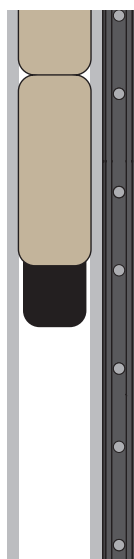
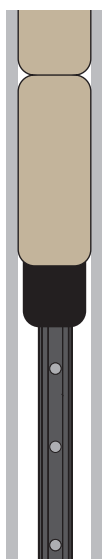


F05 Reverse polarity of operating voltage

Without blanking/classic light curtain function F01, F05 and F07

For door systems where the installation is not possible at the closing level, e.g. for roller shutters, the LIGI can also be installed directly in front of the door. For this type of installation in front of the door, we recommend the settings for the classic function. With the F05 (or F01) option, the classic light curtain function is selected through the reverse polarity of the operating voltage. Switching is now activated with each interruption of the light beam.

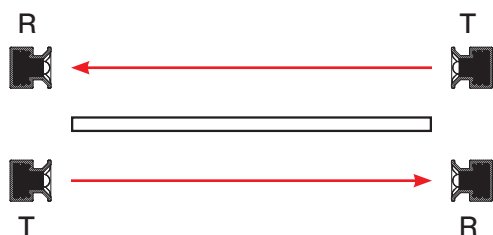
Mounted in the door guides at the closing level with blanking (default) F00/F05 without blanking F01/F05/F07



Settings recommended for installation in front of the door

1. Set function 'without blanking'
2. 'without light control' function Program luminance directly at open door (see chapter on Light control)

Two-way installation



To minimise the mutual impact of two LIGIs for installation in front of the door, they must be installed alternately.

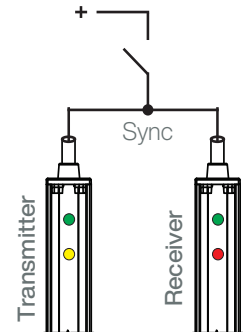
Programmable light control

With light control (default)

The LIGI is delivered by default with an automated luminance control. The control continuously adapts the luminance to the operating conditions.

Programming the luminance

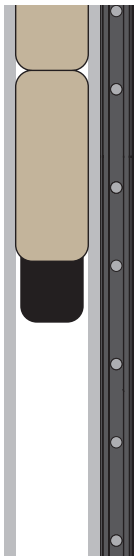
For the installation of the LIGI in front of the door, especially in door systems with very high reflective values, e.g. circle-matted structures, stainless steel and reflecting surfaces, the light control may be disrupted.



In these cases, the ideal luminance can be taught-in directly at the open door. This serves to disable the automated luminance control.

Settings recommended for installation in front of the door

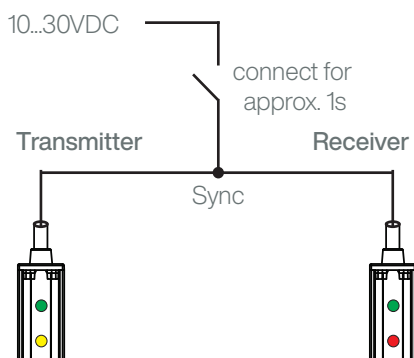
1. Set function 'without blanking' (only for F05)
2. 'without light control' function teach-in luminance directly on the open door



Procedure:

1. Door must be open
2. LIGI must be connected and ready for operation
3. LIGI must have uninterrupted free view during the reading of approx. 10s
4. Sync line for approx. 1s connected with the positive pole, reading and setting starts

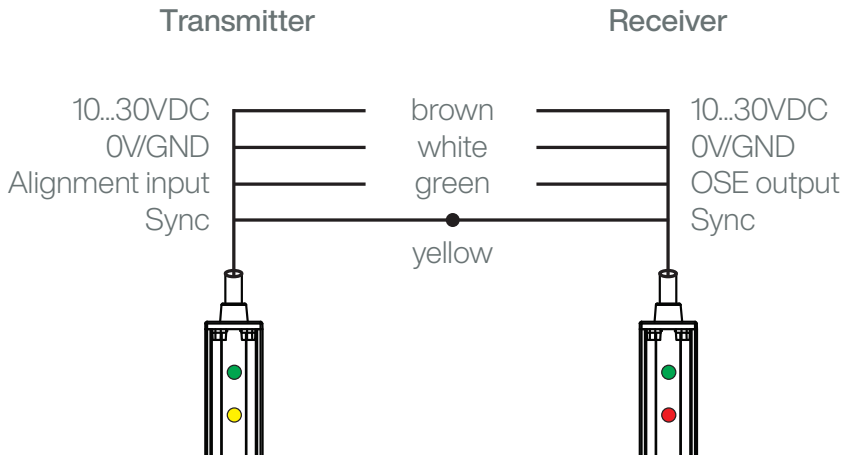
Start (when protected area is vacant)



Indicator LEDs on receiver	
Indicator before start protected area vacant	
Programming phase, approx. 10s green on / red flashes	
Programming phase completed Operational	

OSE output

The safety-oriented OSE output is supported by most door controls.

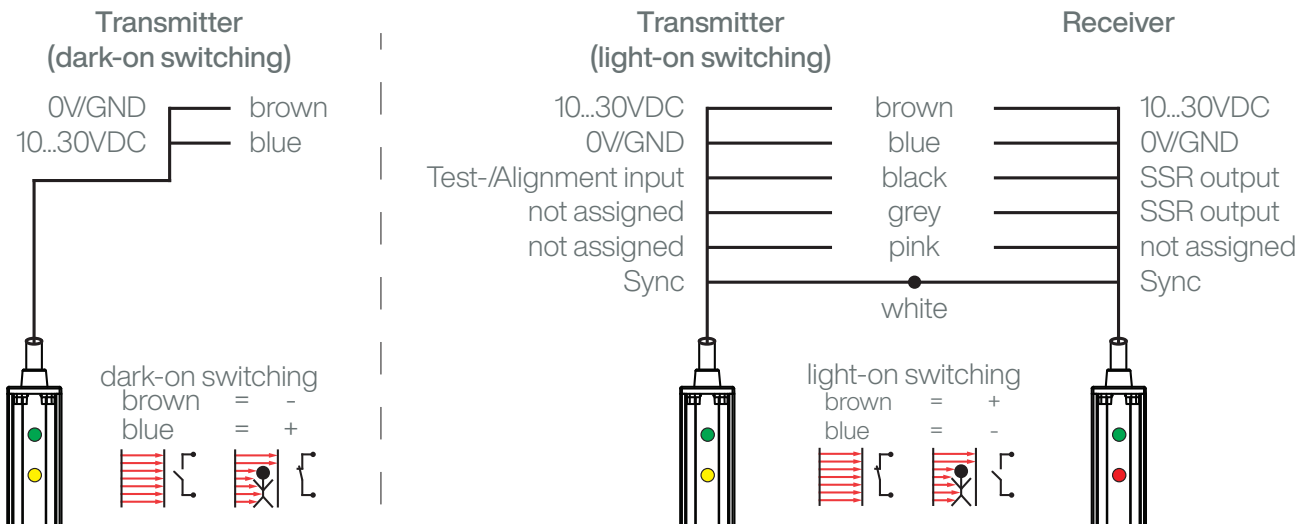


I = max. 20 mA, typ. 950 Hz

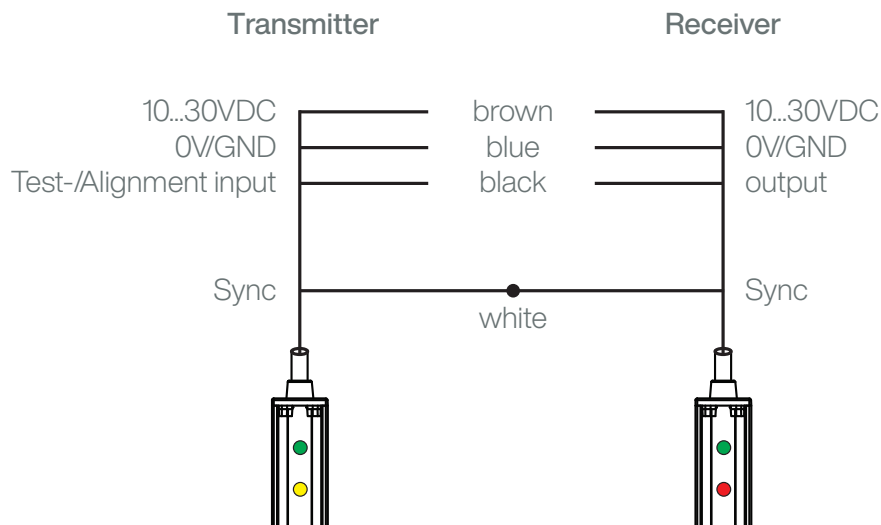


SSR semiconductor relay output

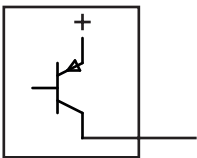
The SSR output is a semiconductor relay with potential-free contact.



Transistor outputs



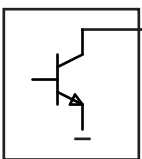
PNP output



Order options P01/P02/P03

The PNP output is a positive-switching semiconductor output. short circuit-proof, protected against reverse polarity, max. 100 mA

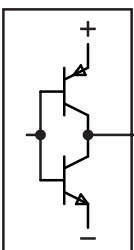
NPN output



Order options N01/N02/N03

The NPN output is a negative-switching semiconductor output. short circuit-proof, protected against reverse polarity, max. 100 mA

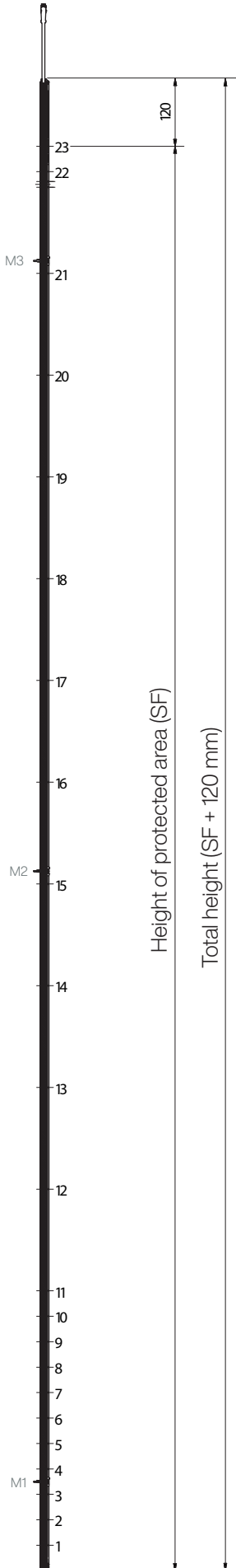
Push-pull output



Order options PP1/PP2/PP3

The push-pull is a counteracting semiconductor output that puts both the positive and the negative potential through. short circuit-proof, protected against reverse polarity, max. 100 mA

C-1 Variants – Standard model



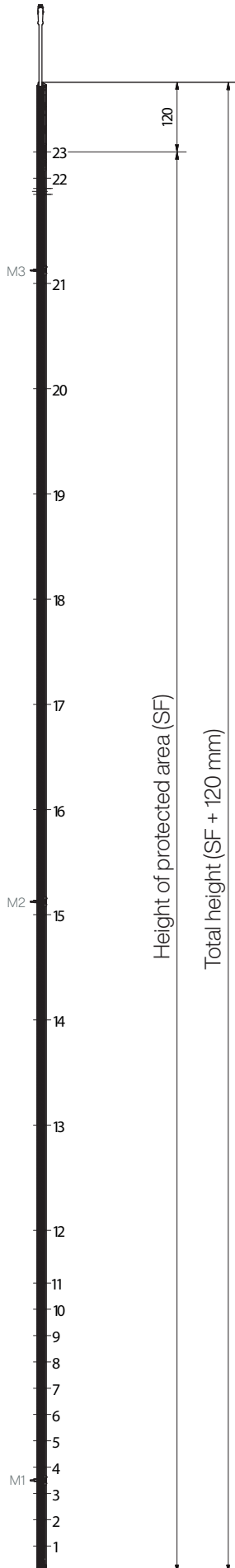
KA	C23-1		C22-1		C21-1		C20-1		C19-1	
	SA	SF	SA	SF	SA	SF	SA	SF	SA	SF
23	45	2520								
22	180	2475	45	2340						
21	180	2295	180	2295	45	2160				
20	180	2115	180	2115	180	2115	45	1980		
19	180	1935	180	1935	180	1935	180	1935	45	1800
18	180	1755	180	1755	180	1755	180	1755	180	1755
17	180	1575	180	1575	180	1575	180	1575	180	1575
16	180	1395	180	1395	180	1395	180	1395	180	1395
15	180	1215	180	1215	180	1215	180	1215	180	1215
14	180	1035	180	1035	180	1035	180	1035	180	1035
13	180	855	180	855	180	855	180	855	180	855
12	180	675	180	675	180	675	180	675	180	675
11	45	495	45	495	45	495	45	495	45	495
10	45	450	45	450	45	450	45	450	45	450
09	45	405	45	405	45	405	45	405	45	405
08	45	360	45	360	45	360	45	360	45	360
07	45	315	45	315	45	315	45	315	45	315
06	45	270	45	270	45	270	45	270	45	270
05	45	225	45	225	45	225	45	225	45	225
04	45	180	45	180	45	180	45	180	45	180
03	45	135	45	135	45	135	45	135	45	135
02	45	90	45	90	45	90	45	90	45	90
01	45	45	45	45	45	45	45	45	45	45
00										
M3		2318		2138		1958		1778		1598
M2		1238		1148		1058		968		878
M1		158		158		158		158		158

Normative beam distribution
Standard model height

KA	C18-1		C17-1		C16-1		C15-1		C14-1		C13-1	
	SA	SF	SA	SF	SA	SF	SA	SF	SA	SF	SA	SF
18	45	1620										
17	180	1575	45	1440								
16	180	1395	180	1395	45	1260						
15	180	1215	180	1215	180	1215	45	1080				
14	180	1035	180	1035	180	1035	180	1035	45	900		
13	180	855	180	855	180	855	180	855	180	855	45	720
12	180	675	180	675	180	675	180	675	180	675	180	675
11	45	495	45	495	45	495	45	495	45	495	45	495
10	45	450	45	450	45	450	45	450	45	450	45	450
09	45	405	45	405	45	405	45	405	45	405	45	405
08	45	360	45	360	45	360	45	360	45	360	45	360
07	45	315	45	315	45	315	45	315	45	315	45	315
06	45	270	45	270	45	270	45	270	45	270	45	270
05	45	225	45	225	45	225	45	225	45	225	45	225
04	45	180	45	180	45	180	45	180	45	180	45	180
03	45	135	45	135	45	135	45	135	45	135	45	135
02	45	90	45	90	45	90	45	90	45	90	45	90
01	45	45	45	45	45	45	45	45	45	45	45	45
00												
M3		1418		1238		1058		878		698		518
M2		788		698		608		518		428		-
M1		158		158		158		158		158		158

KA = channels
SA = beam distances
SF = height of protected area

C-2 Variants – Shorter models with the same number of beams



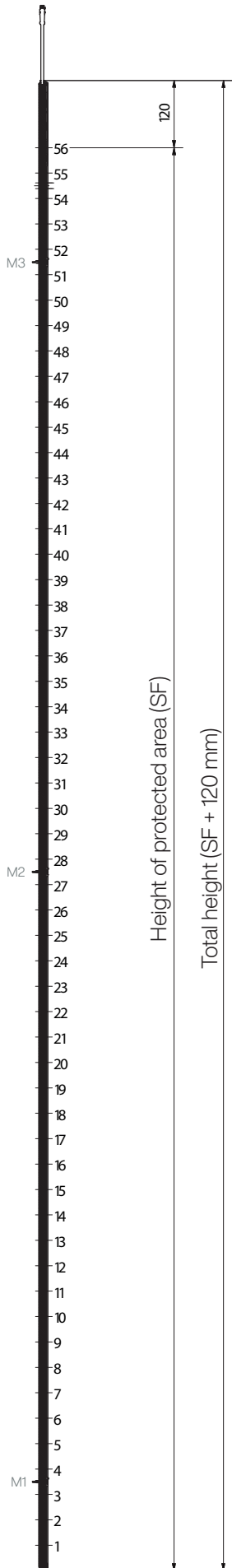
Normative beam selection

C23-2			C22-2		C21-2		C20-2		C19-2	
KA	SA	SF	SA	SF	SA	SF	SA	SF	SA	SF
23	45	2430	45	2250	45	2070	45	1890	45	1710
22	180	2385	180	2205	180	2025	180	1845	180	1665
21	180	2205	180	1845	180	1665	180	1485	180	1305
20	180	2025	180	1665	180	1485	180	1305	180	1125
19	180	1845	180	1485	180	1305	180	1125	180	945
18	180	1665	180	1305	180	1125	180	945	180	765
17	180	1485	180	945	180	765	180	585	180	405
16	180	1305	180	765	180	585	180	405	180	225
15	180	1125	180	585	180	405	180	225	180	45
14	180	945	180	405	180	225	180	45	180	45
13	180	765	180	225	180	45	180	45	180	45
12	90	585	90	405	90	225	90	45	90	45
11	45	495	45	360	45	225	45	180	45	135
10	45	450	45	225	45	180	45	135	45	90
09	45	405	45	180	45	135	45	90	45	45
08	45	360	45	135	45	90	45	45	45	45
07	45	315	45	90	45	45	45	45	45	45
06	45	270	45	45	45	45	45	45	45	45
05	45	225	45	45	45	45	45	45	45	45
04	45	180	45	45	45	45	45	45	45	45
03	45	135	45	45	45	45	45	45	45	45
02	45	90	45	45	45	45	45	45	45	45
01	45	45	45	45	45	45	45	45	45	45
00										
M3		2228		2048		1868		1688		1508
M2		1148		1103		968		923		788
M1		158		158		158		158		158

C18-2			C17-2		C16-2		C15-2		C14-2	
KA	SA	SF	SA	SF	SA	SF	SA	SF	SA	SF
18	45	1530	45	1350	45	1170	45	990	45	810
17	180	1485	180	1305	180	1125	180	945	180	765
16	180	1305	180	1125	180	945	180	765	180	585
15	180	1125	180	945	180	765	180	585	180	405
14	180	945	180	765	180	585	180	405	180	225
13	180	765	180	585	180	405	180	225	180	45
12	90	585	90	405	90	225	90	135	90	45
11	45	495	45	360	45	225	45	135	45	45
10	45	450	45	225	45	180	45	90	45	45
09	45	405	45	180	45	135	45	90	45	45
08	45	360	45	135	45	90	45	45	45	45
07	45	315	45	90	45	45	45	45	45	45
06	45	270	45	45	45	45	45	45	45	45
05	45	225	45	45	45	45	45	45	45	45
04	45	180	45	45	45	45	45	45	45	45
03	45	135	45	45	45	45	45	45	45	45
02	45	90	45	45	45	45	45	45	45	45
01	45	45	45	45	45	45	45	45	45	45
00										
M3		1328		1148		968		788		608
M2		743		608		563		428		-
M1		158		158		158		158		158

KA = channels
 SA = beam distances
 SF = height of protected area

A-variants – high beam distribution



Height of protected area (SF)

Total height (SF + 120 mm)

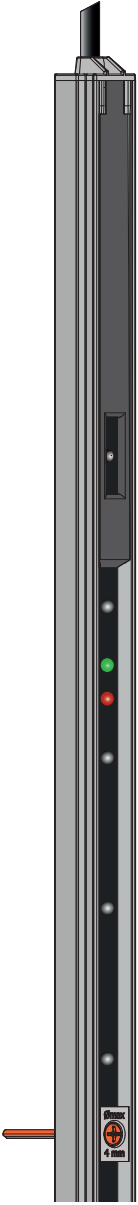
KA	SA	A56	A55	A54	A53	A52	A51	A50	A49	A48	A47	A46	A45	A44
		SF	SF											
56	45	2520	2475	2430	2385	2340	2295	2250	2205	2160	2115	2070	2025	1980
55	45	2475	2430	2385	2340	2295	2250	2205	2160	2115	2070	2025	1980	1935
54	45	2430	2385	2340	2295	2250	2205	2160	2115	2070	2025	1980	1935	1890
53	45	2385	2340	2295	2250	2205	2160	2115	2070	2025	1980	1935	1890	1845
52	45	2340	2295	2250	2205	2160	2115	2070	2025	1980	1935	1890	1845	1800
51	45	2295	2250	2205	2160	2115	2070	2025	1980	1935	1890	1845	1800	1755
50	45	2250	2205	2160	2115	2070	2025	1980	1935	1890	1845	1800	1755	1710
49	45	2205	2160	2115	2070	2025	1980	1935	1890	1845	1800	1755	1710	1665
48	45	2160	2115	2070	2025	1980	1935	1890	1845	1800	1755	1710	1665	1620
47	45	2115	2070	2025	1980	1935	1890	1845	1800	1755	1710	1665	1620	1575
46	45	2070	2025	1980	1935	1890	1845	1800	1755	1710	1665	1620	1575	1530
45	45	2025	1980	1935	1890	1845	1800	1755	1710	1665	1620	1575	1530	1485
44	45	1980	1935	1890	1845	1800	1755	1710	1665	1620	1575	1530	1485	1440
43	45	1935	1890	1845	1800	1755	1710	1665	1620	1575	1530	1485	1440	1395
42	45	1890	1845	1800	1755	1710	1665	1620	1575	1530	1485	1440	1395	1350
41	45	1845	1800	1755	1710	1665	1620	1575	1530	1485	1440	1395	1350	1305
40	45	1800	1755	1710	1665	1620	1575	1530	1485	1440	1395	1350	1305	1260
39	45	1755	1710	1665	1620	1575	1530	1485	1440	1395	1350	1305	1260	1215
38	45	1710	1665	1620	1575	1530	1485	1440	1395	1350	1305	1260	1215	1170
37	45	1665	1620	1575	1530	1485	1440	1395	1350	1305	1260	1215	1170	1125
36	45	1620	1575	1530	1485	1440	1395	1350	1305	1260	1215	1170	1125	1080
35	45	1575	1530	1485	1440	1395	1350	1305	1260	1215	1170	1125	1080	1035
34	45	1530	1485	1440	1395	1350	1305	1260	1215	1170	1125	1080	1035	990
33	45	1485	1440	1395	1350	1305	1260	1215	1170	1125	1080	1035	990	945
32	45	1440	1395	1350	1305	1260	1215	1170	1125	1080	1035	990	945	900
31	45	1395	1350	1305	1260	1215	1170	1125	1080	1035	990	945	900	855
30	45	1350	1305	1260	1215	1170	1125	1080	1035	990	945	900	855	810
29	45	1305	1260	1215	1170	1125	1080	1035	990	945	900	855	810	765
28	45	1260	1215	1170	1125	1080	1035	990	945	900	855	810	765	720
27	45	1215	1170	1125	1080	1035	990	945	900	855	810	765	720	675
26	45	1170	1125	1080	1035	990	945	900	855	810	765	720	675	630
25	45	1125	1080	1035	990	945	900	855	810	765	720	675	630	585
24	45	1080	1035	990	945	900	855	810	765	720	675	630	585	540
23	45	1035	990	945	900	855	810	765	720	675	630	585	540	495
22	45	990	945	900	855	810	765	720	675	630	585	540	495	450
21	45	945	900	855	810	765	720	675	630	585	540	495	450	405
20	45	900	855	810	765	720	675	630	585	540	495	450	405	360
19	45	855	810	765	720	675	630	585	540	495	450	405	360	315
18	45	810	765	720	675	630	585	540	495	450	405	360	315	270
17	45	765	720	675	630	585	540	495	450	405	360	315	270	225
16	45	720	675	630	585	540	495	450	405	360	315	270	225	180
15	45	675	630	585	540	495	450	405	360	315	270	225	180	135
14	45	630	585	540	495	450	405	360	315	270	225	180	135	90
13	45	585	540	495	450	405	360	315	270	225	180	135	90	45
12	45	540	495	450	405	360	315	270	225	180	135	90	45	
11	45	495	450	405	360	315	270	225	180	135	90	45		
10	45	450	405	360	315	270	225	180	135	90	45			
9	45	405	360	315	270	225	180	135	90	45				
8	45	360	315	270	225	180	135	90	45					
7	45	315	270	225	180	135	90	45						
6	45	270	225	180	135	90	45							
5	45	225	180	135	90	45								
4	45	180	135	90	45									
3	45	135	90	45										
2	45	90	45											
1	45	45												
M3		2318	2273	2430	2183	2138	2093	2048	2003	1958	1913	1868	1823	1778
M2		1238	1193	1148	1103	1148	1103	1103	1058	1058	1013	968	923	968
M1		158	158	158	158	158	158	158	158	158	158	158	158	158

A-variants – high beam distribution

KA	SA	A26	A25	A24	A23	A22	A21	A20	A19	A18	A17	A16	A15	A14	A13	A12	A11
		SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF
26	45	1170	1125	1080	1035	990	945	900	855	810	765	720	675	630	585	540	495
25	45	1125	1080	1035	990	945	900	855	810	765	720	675	630	585	540	495	450
24	45	1080	1035	990	945	900	855	810	765	720	675	630	585	540	495	450	405
23	45	1035	990	945	900	855	810	765	720	675	630	585	540	495	450	405	360
22	45	990	945	900	855	810	765	720	675	630	585	540	495	450	405	360	315
21	45	945	900	855	810	765	720	675	630	585	540	495	450	405	360	315	270
20	45	900	855	810	765	720	675	630	585	540	495	450	405	360	315	270	225
19	45	855	810	765	720	675	630	585	540	495	450	405	360	315	270	225	180
18	45	810	765	720	675	630	585	540	495	450	405	360	315	270	225	180	135
17	45	765	720	675	630	585	540	495	450	405	360	315	270	225	180	135	90
16	45	720	675	630	585	540	495	450	405	360	315	270	225	180	135	90	45
15	45	675	630	585	540	495	450	405	360	315	270	225	180	135	90	45	
14	45	630	585	540	495	450	405	360	315	270	225	180	135	90	45		
13	45	585	540	495	450	405	360	315	270	225	180	135	90	45			
12	45	540	495	450	405	360	315	270	225	180	135	90	45				
11	45	495	450	405	360	315	270	225	180	135	90	45					
10	45	450	405	360	315	270	225	180	135	90	45						
09	45	405	360	315	270	225	180	135	90	45							
08	45	360	315	270	225	180	135	90	45								
07	45	315	270	225	180	135	90	45									
06	45	270	225	180	135	90	45										
05	45	225	180	135	90	45											
04	45	180	135	90	45												
03	45	135	90	45													
02	45	90	45														
01	45	45															
00																	

M3	968	923	878	833	788	743	698	653	608	563	518	473	428	383	338	293
M2	563	518	473	428	383	338	293	-	-	-	-	-	-	-	-	-
M1	158	158	158	158	158	158	158	158	158	158	158	158	68	68	68	68

easy direct installation
via screw-through technology

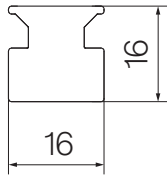
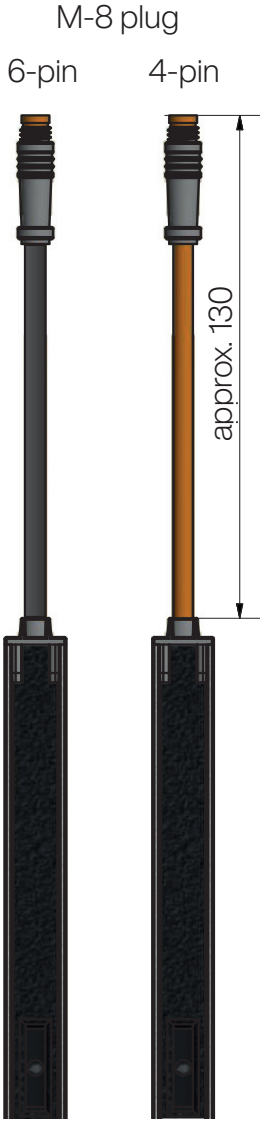


Front-lasered
label field

Transmitter



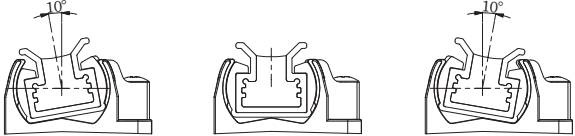
Receiver



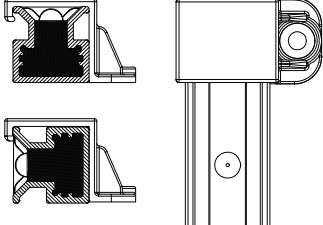
Optional accessories



LIGI-JK10
Adjustable setting clamp
 $\pm 10^\circ$



LIGI-HK10
Holding clip



90° Installation

Order code LIGI - safety light curtain

LIGI-01-BW-P01-T00-A-57-2520-F00-C00-S015

Description

Housing design

01 = standard profile 16x16mm

Finish

R = without anodised finish

S = silver

B = black

_W = car wash (optional)

Output versions

OSE = rectangular signal

P01 = PNP - positive switching, light-on switching (preferred configuration)

P02 = PNP - positive switching, dark-on switching

P03 = PNP - light-on/dark-on switching

N01 = NPN - negative switching, light-on switching (preferred configuration)

N02 = NPN - negative switching, dark-on switching

N03 = NPN - light-on/dark-on switching

R01 = SSR - light-on switching

R02 = SSR - dark-on switching

R03 = SSR - light-on/dark-on switching

PP1 = Push-Pull - light = high-level - dark = low-level

PP2 = Push-Pull - light = low-level - dark = high-level

PP3 = Push-Pull - light-on/dark-on switching

Testing

T00 = pull-down resistor, only activates the alignment mode

T01 = pull-down resistor, test/alignment=low or open

T02 = pull-down resistor, test/alignment=high

T03 = pull-up resistor, test/alignment=low

T04 = pull-up resistor, test/alignment=high or open

T05 = open is normal operation, test=low or high

Beam geometry

A = continuous high detection capability

C = standard-compliant detection capability

Active light beams

Active detection zone

in mm

F = Function

00 = with blanking

01 = without blanking

05 = switching blanking/no blanking programmable

07 = Outdoor (always without blanking)

C = Cable length/connector

00 = pig-tail connector with M8 plug, 4-pin

03 = pig-tail connector with M8 plug, 6-pin

S = Special version

015 = standard version

XXX = custom design without functional difference, for example: color, logo, etc.

Order information

The LIGs with the OSE, PNP, NPN, and push-pull output variants are supplied with a 4-pin M8 plug system, and the output variants with SSR are supplied with a 6-pin M8 plug system. The delivery includes one connecting cable of 5 m and 15 m each.

Overview of light curtain Variant A (beam distance 45 mm)

Description	Number of beams	SF	GH	OSE output Item no.:	PNP output Item no.:	NPN output Item no.:	SSR output Item no.:
01 - A56	56	2520	2640	318740*	318795*	318871*	318922*
01 - A55	55	2475	2595	318737	318792	318868	321504
01 - A54	54	2430	2550	318734	318789	318865	318916
01 - A53	53	2385	2505	318731	318758	318862	318913
01 - A52	52	2340	2460	318728	318755	318859	318910
01 - A51	51	2295	2415	318725	318752	318856	320886
01 - A50	50	2250	2370	318722*	318749*	318853	320889
01 - A49	49	2205	2325	318719	318746	318850	318901
01 - A48	48	2160	2280	318983	319179	319255	319388
01 - A47	47	2115	2235	318986	319093	320653	319482
01 - A46	46	2070	2190	318989	319060	320656	321055
01 - A45	45	2025	2145	318992	321077	320659	321968
01 - A44	44	1980	2100	318995*	319456*	319258	321971
				T00/F05	T01/P01/F05	T03/N01/ F05	T05/R03/ F00

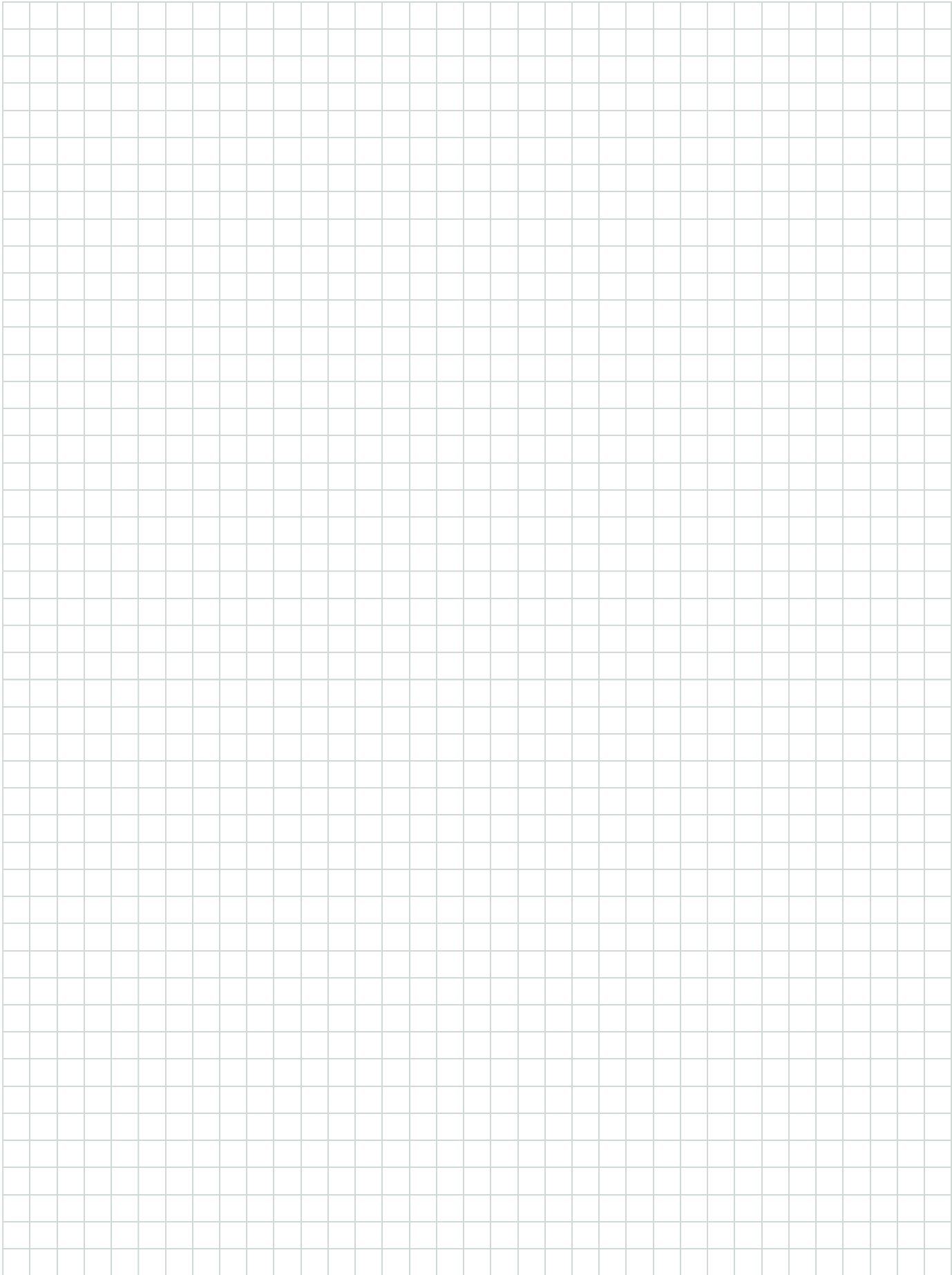
Overview of light curtain Variant C (standard compliant beam distance)

Description	Number of beams	SF	GH	OSE output Item no.:	PNP output Item no.:	NPN output Item no.:	SSR output Item no.:
01 - C23-1	23	2520	2640	318786*	318847*	318898*	318949*
01 - C23-2	23	2430	2550	318783	318844	318895	318946
01 - C22-1	22	2340	2460	318780	318841	318892	318943
01 - C22-2	22	2250	2370	318777	318838	318889	318940
01 - C21-1	21	2160	2280	318774	318835	318886	318937
01 - C21-2	21	2070	2190	318771*	318832	318883	318934
01 - C20-1	20	1980	2100	318768	318804	318880	318931
01 - C20-2	20	1890	2010	318765	318801	318877	318928
01 - C19-1	19	1800	1920	318762	318798	318874	318925
				T00/F05	T01/P01/F05	T03/N01/ F05	T05/R03/ F00

SF = height of protected area
GH = total height

* Preferred variants, colour-coded
other light curtain types available on request

Notes





Witt Sensoric GmbH
Ernst-Lau-Straße 12 · 12489 Berlin · Germany
Tel.: +49 (0) 30 / 75 44 94 - 120
sales@witt-sensoric.de
www.witt-sensoric.de
www.witt-sensoric-shop.de