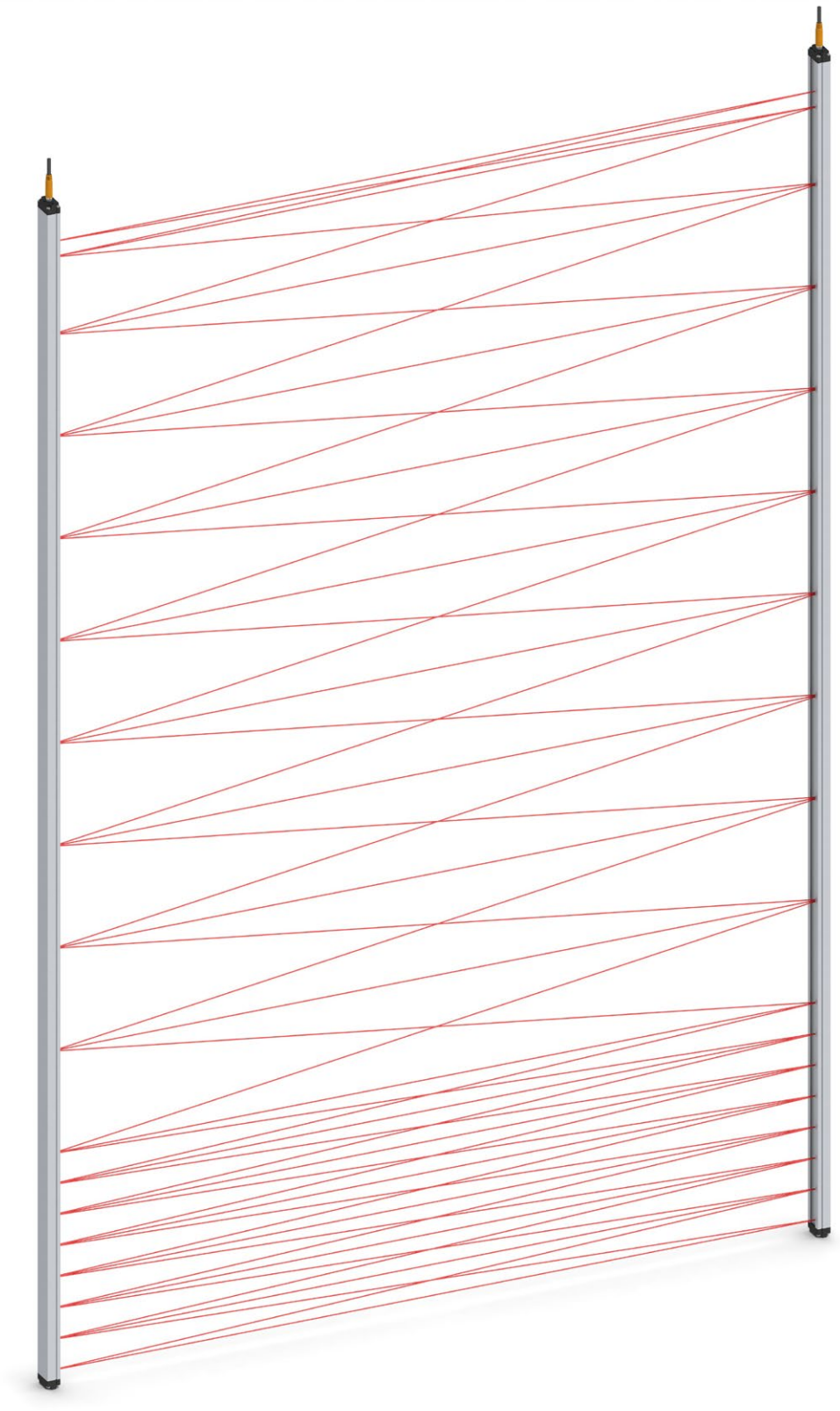
STRACK
LIFT AUTOMATION

ILGT



ILGT

Safety light grid for power operated gates, also secure directly the wing path of vertically moved gates.

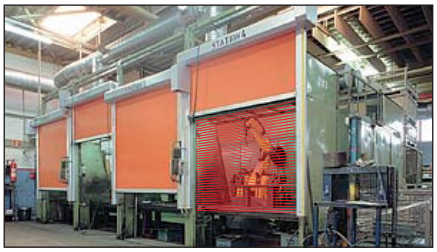
ILGT

The ILGT is the safety light grid for all power operated gates up to a width of 12 m.
It is an **ESPE type 2 or an AOPD type 2, SIL 1, Cat. 2, Performance level c** and can be used as the sole sealing device of power-operated gates. In addition, it can be installed **directly into the guide rail for gates** of vertically moved gates. The gate is provided with comprehensive mobility at a closing speed of 0.02 to 6 m/s.

Also otherwise it provides everything you might expect from a good safety light grid such as dynamic blanking, local parameterability, random channel suppressions, parallel and crossed light beams, outstanding foreign light and EMC immunity, high mechanical stability and good adjustability, and last, but not least, a favourable price.

The ILGT is divided into two series:
D.ILGT for dynamic installation and **S.ILGT** for static installation.

Both ILGT series may be used as a normal light grid with limited safety and without test function. For this we recommend especially the D.ILGT.



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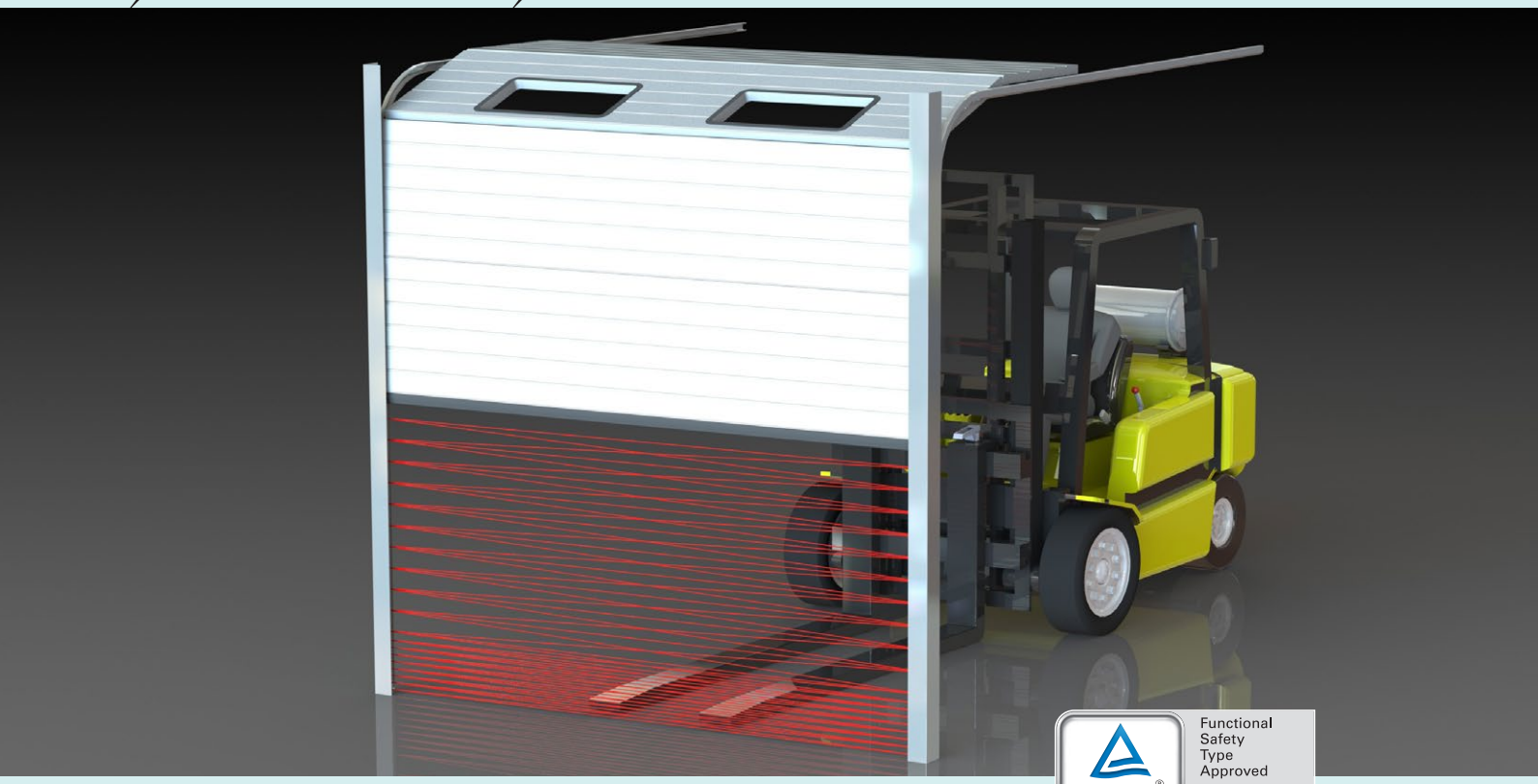

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In a nutshell:

- *range 12 m with much reserve*
- *safety light grid type 2, SIL 1, Cat. 2, PL c*
- *the S.ILGT serves solely to secure the closing edge acc. to EN 12453 type E*
- *the D.ILGT also serves solely to secure the closing edge as a combination of type C and D acc. to EN 12453, depending on the gate construction type*
- *can be fitted directly in the gate guide rail. To this end, the gate has comprehensive mobility and does not require a special connection to the gate control system.*
- *no monitoring hole underneath the edge of the gate, as with other blanking procedures*
- *blanking protected against manipulation*
- *crossed light beams*
- *outstanding foreign light tolerance*
- *parameterisable locally without programming tool*
- *channels can be suppressed locally without programming tool*
- *integrated electronic system, no control system, cables not interconnected*
- *flat, stabile and industrial design, IP68*
- *favourable in price and saving electricity*
- *available in every length*
- *can also be used as a normal light grid without safety functions*
- *option: with an integrated heating system for the use outdoors*

Product description

ILGT series: The ILGT is a safety light grid subdivided into two series: the D.ILGT for the dynamic installation and the S.ILGT for the static installation. Both series are identical; however, the D.ILGT is provided with an infrared light beam opening further.

D.ILGT: The D.ILGT may be mounted firmly (statically) and on the gate wing in a moveable manner (dynamically). The D.ILGT is a full-size safety light grid but with the restriction that the opening angle of the light beam is larger than required by EN61496-2.
D.ILGT safety: EN12445, EN12453, EN13241-1, EN13849-1 (Cat. 2, PL c), EN62061 (SIL 1), EN61496-1 (ESPE Type 2), EN61496-2 Section 5.4, EN12978 without Section 5.3.3

S.ILGT: The S.ILGT may only be mounted firmly (statically), thus is must not move along at the gate wing. The S.ILGT is a full-size safety light grid without restriction.
S.ILGT safety: as D.ILGT, but in addition EN12978 and EN61496-2 (AOPD) without restriction.

Blanking: The ILGT (D.ILGT and S.ILGT) can be installed by the dynamic blanking directly in the gate wing path of sectional and high-speed gates (also with film hanging), whereby it cooperates with most gate control systems. Except for the power supply, if necessary a test input and switching output there is no further interconnection or connection to the gate control system required. The gate is provided with comprehensive mobility between 0.02 and 6 m/s (depending on the channel grid). After a light grid interruption or any stop, there is no need for the gate to move up again. Furthermore, an object is also detected located directly underneath the edge of the gate, no monitoring hole occurs as with other blanking procedures.
In spite of blanking, the ILGT is able to work with crossed beams enabling a dense monitoring grid detecting e.g. fork arms or drawbars. The blanking can be used for the D.ILGT as well as for the S.ILGT.
Blanking condition: The edge of the gate wings must show minimum height (see Technical data).

Circumvention protection for blanking: The ILGT is provided with an circumvention through the light grid protection, preventing an incorrect suppression of the protection field (e.g. fork lift lowers its arm within the gate path) and intentional circumvention (e.g. a person moves an object or his arm from the top to the bottom and suppresses the protection field).

Fuzzy regulation at the D.ILGT: The signal strength of the D.ILGT is controlled in real time by means of fuzzy-logic. This always ensures an optimal luminous power: at close range, at a distance and in case of contamination.

Parameters configurable locally: The ILGT can be parameterised locally and password-protected without aids. Functions such as channel suppressions, test input at Plus or 0V active, switch-on delay, etc. can be set. The respective parameter settings are made only for the transmitter. The data are transmitted optically to the receiver and stored in both permanently.

Arbitrary channel suppression: By simply covering channels and activating the function “channel suppression”, the ILGT closes covered channels from the detection system and stores it permanently. After removing the covers the ILGT operates as usual, but without the shutdown areas. In the case of intended changes, the procedure can be cancelled and repeated any desired number of times.

Test input: With the test input, the ILGT must be tested for correct functioning prior to every closing of the gate. When setting of the test inputs, the receiver deactivates its output, which must be checked by the gate control system. Afterwards, the gate control system releases the test input again and the receiver activates its output again. The gate can be closed.

Current consumption: In spite of the larger range and faster response, the ILGT requires only very little power (see Technical data).

Integrated heating system: The ILGT is also available with thermally controlled heating system of the electronic system. This can prevent an internal condensation of the units.

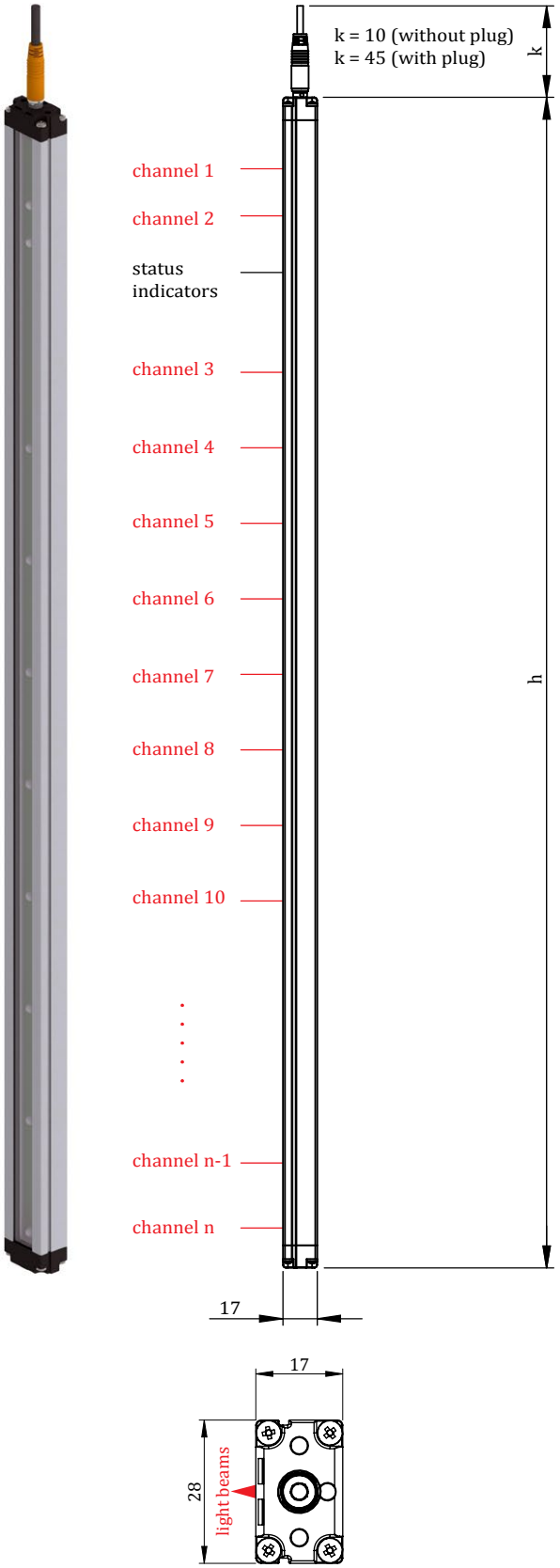
Electronics: The entire electronic system is integrated in the sensor strips. The potential-free output is non-contact, non-wearing and short circuit proof.

Further usage possibilities: Both ILGT series may be used as a normal light grid with limited safety and without test function. For this we recommend especially the D.ILGT.

Restrictions: The use in potentially explosive areas is not allowed.
The ILGT may also be exposed to any weather conditions or continuous immersion in water.

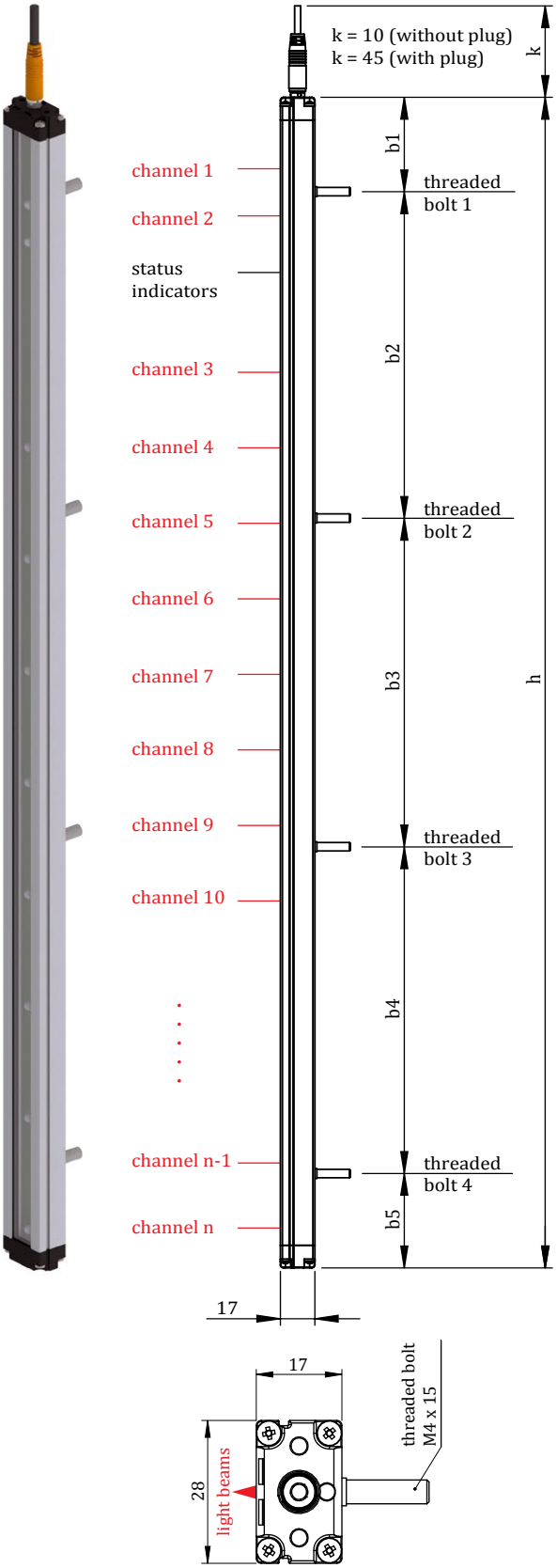
ILGT

Clamping (for customer's own holder)



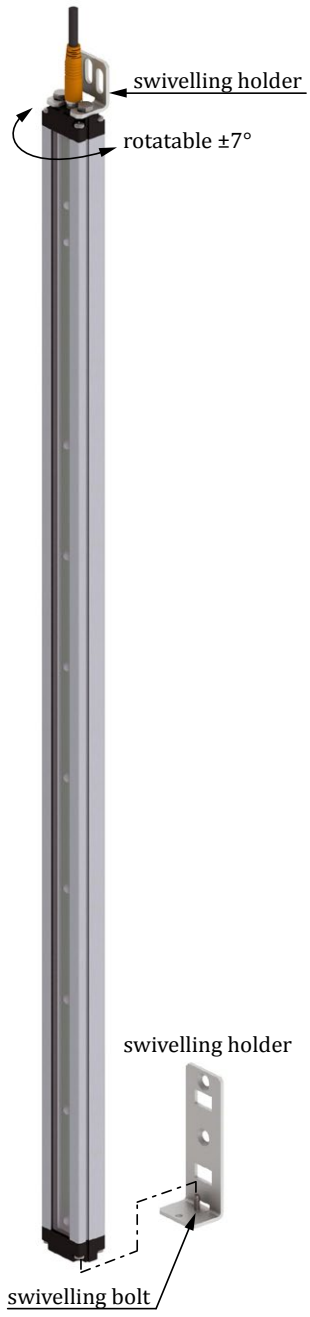
ILGT

Bolt attachment



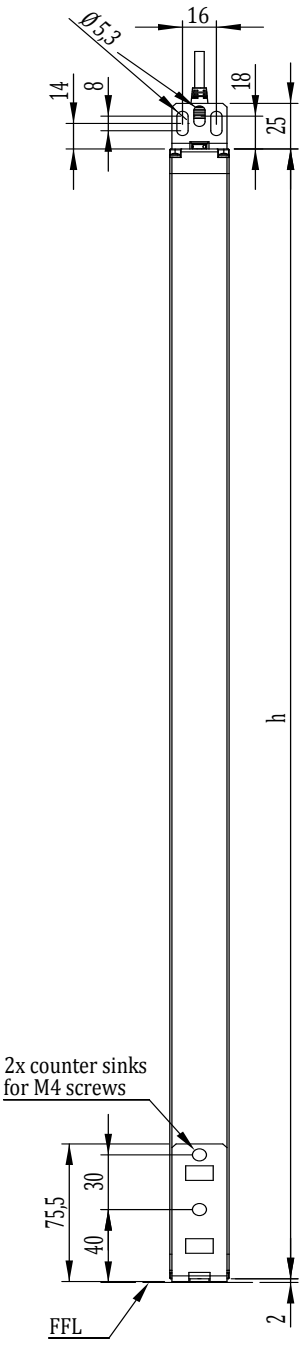
ILGT

Swivelling holder rear
(front panel installation)

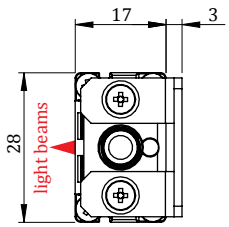


Swivelling holder front
(rear panel installation)

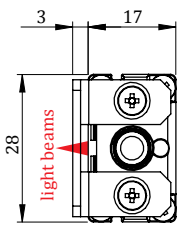
Dimensions of the swivelling holder



Top view (swivelling holder rear)

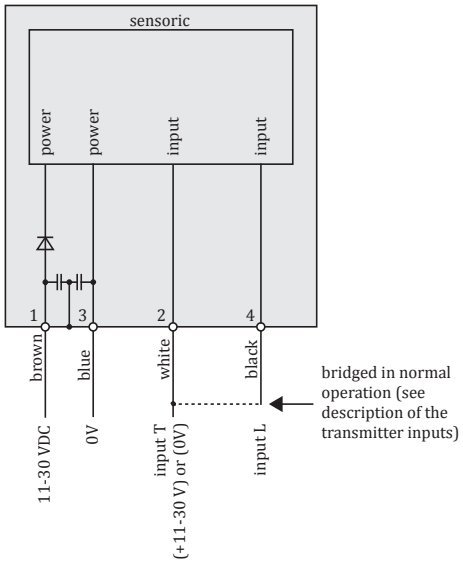


Top view (swivelling holder front)

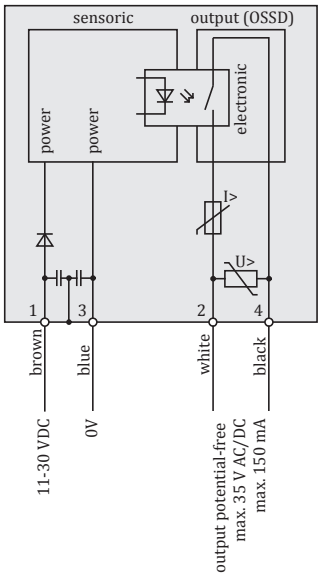


Connection ILGT

Transmitter



Receiver

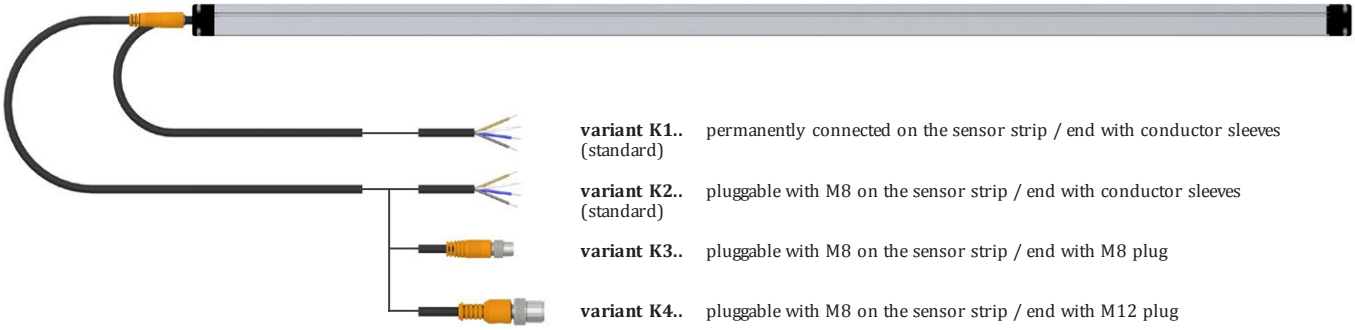


Description of the transmitter inputs

During the commissioning (T-input and L-input not bridged):
T-input = parameterisation
L-input = calibration to the current range, incl. activation of the learn trips for blanking

In normal operation (T- and L-input bridged):
T-input + L-input = "test input"

Cable variants



variant K1.. (standard) permanently connected on the sensor strip / end with conductor sleeves

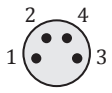
variant K2.. (standard) pluggable with M8 on the sensor strip / end with conductor sleeves

variant K3.. pluggable with M8 on the sensor strip / end with M8 plug

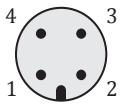
variant K4.. pluggable with M8 on the sensor strip / end with M12 plug

Pin assignments

M8 connector
(view onto the pins)



M12 connector
(view onto the pins)



Order data

Type code: a-c-e/g-i-m-p(/q)(-x)(/y)(-z)

Example: 688-D.ILGT-46/040-K-K2-05 or 688-S.ILGT-08/040+16/132+2-K-K1-10

a	Article group	688	
c	Device type	D.ILGT	Dynamic ILGT with range 0.1 - 12 m (safety light grid with opening angle of the beam > ±10°)
		S.ILGT	Static ILGT with range 1 - 12 m (full-size safety light grid for a static installation)
e	Number of channels	03 - 64	Number of channels (number of light beams for crossed beams = 3 x number of channels – 2)
g	Channel grid	040	40 mm
		066	66 mm
		132	132 mm
i	Types of housing	K	Without bolts, without holder retainer (for customer's own clamping)
		B	With bolts
		S	With swivelling holder for the front and rear panel installation (standard)
m	Connecting cable	K1	Standard PVC SW / firmly connected to the sensor strip / end with conductor sleeves
		K2	Highly flexible PUR SW halogen-free / pluggable to sensor strip / end with conductor sleeves
		K3	Highly flexible PUR SW halogen-free / pluggable to sensor strip / end with M8 plug
		K4	Highly flexible PUR SW halogen-free / pluggable to sensor strip / end with M12 plug
p	Cable length	00	0 m (only M8-plug at sensor strip)
		02	2 m
		05	5 m (standard length)
		10	10 m
		15	15 m
		20	20 m
q	Special profile length in mm	0000 – 5000	(if not specified, then the lengths are according to the following tables)
x	Special variant	H	With an integrated controlled heating system
	(It is also possible to position	S001	Special variant no. 001 (e.g. other welding stud positions)
	several special variants one	AY	Can work parallel to a normal ILGT, without influences of these devices (e.g. if mounted directly in front of and
	next to the other.)		behind a gate). If using with D.ILGT, the D.ILGT must be mounted statically.
y	Transmitter, receiver, compl.	S...	Transmitter strip (possibly followed by the software version)
		E...	Receiver strip (possibly followed by the software version)
		...	Complete system (transmitter and receiver)
z	Type of packaging	VP01	Individual packaging (per pair) including

Customer-specific special variant:
It is possible to position the weld studs according to your data, use different number and size of bolts, etc. Please contact us. We will also build your very specific ILGT.

Type of delivery / packaging:
We deliver (based on ILGT pairs) in individual and collective packagings.
Example: Individual packagings for 1 pair of ILGT with a length of 2060 mm: Weight: 1800 g (without ILGT), box dim. HxWxD: 2170x160x120

Suited to be installed directly into the guide rail of vertically moved gates.

Length variants D.ILGT/S.ILGT with channel grid 40 mm + 132 mm + 2 (bottom 40 mm, then 132 mm and top 2 additional channels)

Example: "08/040+16/132+2" = 8x grid 40 + 16x grid 132 + top 1x grid 100 + 1x 20 / Preferred type: 688-S.ILGT-08/040+16/132+2-S-K2-00

Number of channels	Number of light beams	Overall length h (mm)	ILGT variant	For clear gate height acc. EN 12445 chapter 6.2.2.2	Bottom channel at height	Channel at height	Channel at height	Channel at height	Channel at height	Channel at height	Channel at height	Channel at height	Channel at height	Channel at height	Add. channels with grid 132	Channel at height	Channel at height	Second channel at height	Top channel at height	Dim. b1 (mm)	Dim. b2 (mm)	Dim. b3 (mm)	Dim. b4 (mm)	Dim. b5 (mm)
14	40	**1000**	..08/040+04/132+2..	**987-1118**	20	60	100	140	180	220	260	300	432	564	...	696	828	928	**948**	200	200	200	200	200
15	43	**1132**	..08/040+05/132+2.	**1119-1250**	20	60	100	140	180	220	260	300	432	564	...	828	960	1060	**1080**	200	244	244	244	200
16	46	**1264**	..08/040+06/132+2..	**1251-1382**	20	60	100	140	180	220	260	300	432	564	...	960	1092	1192	**1212**	200	288	288	288	200
17	49	**1396**	..08/040+07/132+2..	**1383-1514**	20	60	100	140	180	220	260	300	432	564	...	1092	1224	1324	**1344**	200	332	332	332	200
18	52	**1528**	..08/040+08/132+2..	**1515-1646**	20	60	100	140	180	220	260	300	432	564	...	1224	1356	1456	**1476**	200	376	376	376	200
19	55	**1660**	..08/040+09/132+2..	**1647-1778**	20	60	100	140	180	220	260	300	432	564	...	1356	1488	1588	**1608**	200	420	420	420	200
20	58	**1792**	..08/040+10/132+2..	**1779-1910**	20	60	100	140	180	220	260	300	432	564	...	1488	1620	1720	**1740**	200	464	464	464	200
21	61	**1924**	..08/040+11/132+2..	**1911-2042**	20	60	100	140	180	220	260	300	432	564	...	1620	1752	1852	**1872**	200	508	508	508	200
22	64	**2056**	..08/040+12/132+2..	**2043-2174**	20	60	100	140	180	220	260	300	432	564	...	1752	1884	1984	**2004**	200	552	552	552	200
23	67	**2188**	..08/040+13/132+2..	**2175-2306**	20	60	100	140	180	220	260	300	432	564	...	1884	2016	2116	**2136**	200	596	596	596	200
24	70	**2320**	..08/040+14/132+2..	**2307-2438**	20	60	100	140	180	220	260	300	432	564	...	2016	2148	2248	**2268**	200	640	640	640	200
25	73	**2452**	..08/040+15/132+2..	**2439-2510**	20	60	100	140	180	220	260	300	432	564	...	2148	2280	2380	**2400**	200	684	684	684	200
26	**76**	**2584**	**..08/040+16/132+2..**	**from 2511**	**20**	**60**	**100**	**140**	**180**	**220**	**260**	**300**	**432**	**564**	**...**	**2280**	**2412**	**2512**	**2532**	**200**	**728**	**728**	**728**	**200**
27	79	**2716**	..08/040+17/132+2..	-	20	60	100	140	180	220	260	300	432	564	...	2412	2544	2644	**2664**	200	772	772	772	200
28	82	**2848**	..08/040+18/132+2..	-	20	60	100	140	180	220	260	300	432	564	...	2544	2676	2776	**2796**	200	816	816	816	200
29	85	**2980**	..08/040+19/132+2..	-	20	60	100	140	180	220	260	300	432	564	...	2676	2808	2908	**2928**	200	860	860	860	200
30	88	**3112**	..08/040+20/132+2..	-	20	60	100	140	180	220	260	300	432	564	...	2808	2940	3040	**3060**	200	904	904	904	200
31	91	**3244**	..08/040+21/132+2..	-	20	60	100	140	180	220	260	300	432	564	...	2940	3072	3172	**3192**	200	948	948	948	200
32	94	**3376**	..08/040+22/132+2..	-	20	60	100	140	180	220	260	300	432	564	...	3072	3204	3304	**3324**	200	992	992	992	200
33	97	**3508**	..08/040+23/132+2..	-	20	60	100	140	180	220	260	300	432	564	...	3204	3336	3436	**3456**	200	1036	1036	1036	200
34	100	**3640**	..08/040+24/132+2..	-	20	60	100	140	180	220	260	300	432	564	...	3336	3468	3568	**3588**	200	1080	1080	1080	200

Suited to be installed directly into the guide rail of gates of vertically moved gates, with a finer resolution for "drawbar detection" and "contact protection".

Length variants D.ILGT/S.ILGT with channel grid 40 mm + 66 mm + 2 (bottom 40 mm, then 66 mm and top 2 additional channels)

Example: "08/040+32/066+2" = 8x grid 40 + 32x grid 66 + top 1x grid 100 + 1x 20 / Preferred type: 688-S.ILGT-08/040+32/066+2-S-K2-00

Number of channels	Number of light beams	Overall length h (mm)	ILGT variant	For clear gate height acc. EN 12445 chapter 6.2.2.2	Bottom channel at height	Channel at height	Channel at height	Channel at height	Channel at height	Channel at height	Channel at height	Channel at height	Channel at height	Channel at height	Add. channels with grid 66	Channel at height	Channel at height	Second channel at height	Top channel at height	Dim. b1 (mm)	Dim. b2 (mm)	Dim. b3 (mm)	Dim. b4 (mm)	Dim. b5 (mm)
18	52	**1000**	..08/040+08/066+2..	**987-1118**	20	60	100	140	180	220	260	300	366	432	...	762	828	928	**948**	200	200	200	200	200
20	58	**1132**	..08/040+10/066+2..	**1119-1250**	20	60	100	140	180	220	260	300	366	432	...	894	960	1060	**1080**	200	244	244	244	200
22	64	**1264**	..08/040+12/066+2..	**1251-1382**	20	60	100	140	180	220	260	300	366	432	...	1026	1092	1192	**1212**	200	288	288	288	200
24	70	**1396**	..08/040+14/066+2..	**1383-1514**	20	60	100	140	180	220	260	300	366	432	...	1158	1224	1324	**1344**	200	332	332	332	200
26	76	**1528**	..08/040+16/066+2..	**1515-1646**	20	60	100	140	180	220	260	300	366	432	...	1290	1356	1456	**1476**	200	376	376	376	200
28	82	**1660**	..08/040+18/066+2..	**1647-1778**	20	60	100	140	180	220	260	300	366	432	...	1422	1488	1588	**1608**	200	420	420	420	200
30	88	**1792**	..08/040+20/066+2..	**1779-1910**	20	60	100	140	180	220	260	300	366	432	...	1554	1620	1720	**1740**	200	464	464	464	200
32	94	**1924**	..08/040+22/066+2..	**1911-2042**	20	60	100	140	180	220	260	300	366	432	...	1686	1752	1852	**1872**	200	508	508	508	200
34	100	**2056**	..08/040+24/066+2..	**2043-2174**	20	60	100	140	180	220	260	300	366	432	...	1818	1884	1984	**2004**	200	552	552	552	200
36	106	**2188**	..08/040+26/066+2..	**2175-2306**	20	60	100	140	180	220	260	300	366	432	...	1950	2016	2116	**2136**	200	596	596	596	200
38	112	**2320**	..08/040+28/066+2..	**2307-2438**	20	60	100	140	180	220	260	300	366	432	...	2082	2148	2248	**2268**	200	640	640	640	200
40	118	**2452**	..08/040+30/066+2..	**2439-2510**	20	60	100	140	180	220	260	300	366	432	...	2214	2280	2380	**2400**	200	684	684	684	200
42	**124**	**2584**	**..08/040+32/066+2..**	**from 2511**	**20**	**60**	**100**	**140**	**180**	**220**	**260**	**300**	**366**	**432**	**...**	**2346**	**2412**	**2512**	**2532**	**200**	**728**	**728**	**728**	**200**
44	130	**2716**	..08/040+34/066+2..	-	20	60	100	140	180	220	260	300	366	432	...	2478	2544	2644	**2664**	200	772	772	772	200
46	136	**2848**	..08/040+36/066+2..	-	20	60	100	140	180	220	260	300	366	432	...	2610	2676	2776	**2796**	200	816	816	816	200
48	142	**2980**	..08/040+38/066+2..	-	20	60	100	140	180	220	260	300	366	432	...	2742	2808	2908	**2928**	200	860	860	860	200
50	148	**3112**	..08/040+40/066+2..	-	20	60	100	140	180	220	260	300	366	432	...	2874	2940	3040	**3060**	200	904	904	904	200
52	154	**3244**	..08/040+42/066+2..	-	20	60	100	140	180	220	260	300	366	432	...	3006	3072	3172	**3192**	200	948	948	948	200
54	160	**3376**	..08/040+44/066+2..	-	20	60	100	140	180	220	260	300	366	432	...	3138	3204	3304	**3324**	200	992	992	992	200
56	166	**3508**	..08/040+46/066+2..	-	20	60	100	140	180	220	260	300	366	432	...	3270	3336	3436	**3456**	200	1036	1036	1036	200
58	172	**3640**	..08/040+48/066+2..	-	20	60	100	140	180	220	260	300	366	432	...	3402	3468	3568	**3588**	200	1080	1080	1080	200

Length variants D.ILGT with channel grid 132 mm

Grid code 132

(Not available as S.ILGT, please select it from the right table.)

Number of channels	Number of light beams	Overall length h (mm)	D.ILGT variant	Bottom channel at the height of (mm)	Top channel at the height of (mm)	Dimension b1 (mm)	Dimension b2 (mm)	Dimension b3 (mm)	Dimension b4 (mm)	Dimension b5 (mm)
3	7	**459**	..03/132..	20	284	50	0	359	0	50
4	10	**591**	..04/132..	20	416	50	245.5	0	245.5	50
6	16	**855**	..06/132..	20	680	50	377.5	0	377.5	50
7	19	**987**	..07/132..	20	812	50	443.5	0	443.5	50
8	22	**1119**	..08/132..	20	944	50	340	339	340	50
10	28	**1383**	..10/132..	20	1208	50	428	427	428	50
11	31	**1515**	..11/132..	20	1340	50	472	471	472	50
12	34	**1647**	..12/132..	20	1472	50	516	515	516	50
14	40	**1911**	..14/132..	20	1736	50	604	603	604	50
15	43	**2043**	..15/132..	20	1868	50	648	647	648	50
16	46	**2175**	..16/132..	20	2000	50	692	691	692	50
18	52	**2439**	..18/132..	20	2264	50	780	779	780	50
19	55	**2571**	..19/132..	20	2396	50	824	823	824	50
20	58	**2703**	..20/132..	20	2528	50	868	867	868	50
22	64	**2967**	..22/132..	20	2792	50	956	955	956	50
23	67	**3099**	..23/132..	20	2924	50	1000	999	1000	50
24	70	**3231**	..24/132..	20	3056	50	1044	1043	1044	50
26	76	**3495**	..26/132..	20	3320	50	1132	1131	1132	50
27	79	**3627**	..27/132..	20	3452	50	1176	1175	1176	50
28	82	**3759**	..28/132..	20	3584	50	1220	1219	1220	50
30	88	**4023**	..30/132..	20	3848	50	1308	1307	1308	50
31	91	**4155**	..31/132..	20	3980	50	1352	1351	1352	50
32	94	**4287**	..32/132..	20	4112	50	1396	1395	1396	50

Length variants D.ILGT/S.ILGT with channel grid 132 mm +2

Grid code 132+2 ("+2" = 2 add. channels at the top with grid 100 and 20mm)

Example: "03/132+2" = 3x grid 132 + top 1x grid 100 + 1x 20, thus channels at the height of (mm) 20, 152, 284, 384, 404

Number of channels	Number of light beams	Overall length h (mm)	ILGT variant	Bottom channel at the height of (mm)	Top channel of the normal grid at the height of (mm)	Second additional channel at the height of (mm)	Top additional channel at the height of (mm)	Dimension b1 (mm)	Dimension b2 (mm)	Dimension b3 (mm)	Dimension b4 (mm)	Dimension b5 (mm)
2+2	10	**327**	..02/132+2..	20	152	252	272	50	0	227	0	50
3+2	13	**459**	..03/132+2..	20	284	384	404	50	0	359	0	50
4+2	16	**591**	..04/132+2..	20	416	516	536	50	245.5	0	245.5	50
6+2	22	**855**	..06/132+2..	20	680	780	800	50	377.5	0	377.5	50
7+2	25	**987**	..07/132+2..	20	812	912	932	50	443.5	0	443.5	50
8+2	28	**1119**	..08/132+2..	20	944	1044	1064	50	340	339	340	50
10+2	34	**1383**	..10/132+2..	20	1208	1308	1328	50	428	427	428	50
11+2	37	**1515**	..11/132+2..	20	1340	1440	1460	50	472	471	472	50
12+2	40	**1647**	..12/132+2..	20	1472	1572	1592	50	516	515	516	50
14+2	46	**1911**	..14/132+2..	20	1736	1836	1856	50	604	603	604	50
15+2	49	**2043**	..15/132+2..	20	1868	1968	1988	50	648	647	648	50
16+2	52	**2175**	..16/132+2..	20	2000	2100	2120	50	692	691	692	50
18+2	58	**2439**	..18/132+2..	20	2264	2364	2384	50	780	779	780	50
19+2	61	**2571**	..19/132+2..	20	2396	2496	2516	50	824	823	824	50
20+2	64	**2703**	..20/132+2..	20	2528	2628	2648	50	868	867	868	50
22+2	70	**2967**	..22/132+2..	20	2792	2892	2912	50	956	955	956	50
23+2	73	**3099**	..23/132+2..	20	2924	3024	3044	50	1000	999	1000	50
24+2	76	**3231**	..24/132+2..	20	3056	3156	3176	50	1044	1043	1044	50
26+2	82	**3495**	..26/132+2..	20	3320	3420	3440	50	1132	1131	1132	50
27+2	85	**3627**	..27/132+2..	20	3452	3552	3572	50	1176	1175	1176	50
28+2	88	**3759**	..28/132+2..	20	3584	3684	3704	50	1220	1219	1220	50

Length variants D.ILGT with channel grid 66 mm

Grid code 066

(Not available as S.ILGT, please select it from the right table.)

Number of channels	Number of light beams	Overall length h (mm)	ILGT variant	Bottom channel at the height of (mm)	Top channel at the height of (mm)	Dimension b1 (mm)	Dimension b2 (mm)	Dimension b3 (mm)	Dimension b4 (mm)	Dimension b5 (mm)
3	7	**327**	..03/066..	20	152	50	0	227	0	50
4	10	**393**	..04/066..	20	218	50	0	293	0	50
5	13	**459**	..05/066..	20	284	50	0	359	0	50
6	16	**525**	..06/066..	20	350	50	212.5	0	212.5	50
7	19	**591**	..07/066..	20	416	50	245.5	0	245.5	50
8	22	**657**	..08/066..	20	482	50	278.5	0	278.5	50
10	28	**789**	..10/066..	20	614	50	345.10	0	345.10	50
11	31	**855**	..11/066..	20	680	50	377.5	0	377.5	50
12	34	**921**	..12/066..	20	746	50	410.5	0	410.5	50
13	37	**987**	..13/066..	20	812	50	443.5	0	443.5	50
14	40	**1053**	..14/066..	20	878	50	318	317	318	50
15	43	**1119**	..15/066..	20	944	50	340	339	340	50
16	46	**1185**	..16/066..	20	1010	50	362	361	362	50
18	52	**1317**	..18/066..	20	1142	50	406	405	406	50
19	55	**1383**	..19/066..	20	1208	50	428	427	428	50
20	58	**1449**	..20/066..	20	1274	50	450	449	450	50
21	61	**1515**	..21/066..	20	1340	50	472	471	472	50
22	64	**1581**	..22/066..	20	1406	50	494	493	494	50
23	67	**1647**	..23/066..	20	1472	50	516	515	516	50
24	70	**1713**	..24/066..	20	1538	50	538	537	538	50
26	76	**1845**	..26/066..	20	1670	50	582	581	582	50
27	79	**1911**	..27/066..	20	1736	50	604	603	604	50
28	82	**1977**	..28/066..	20	1802	50	626	625	626	50
29	85	**2043**	..29/066..	20	1868	50	648	647	648	50
30	88	**2109**	..30/066..	20	1934	50	670	669	670	50
31	91	**2175**	..31/066..	20	2000	50	692	691	692	50
32	94	**2241**	..32/066..	20	2066	50	714	713	714	50
34	100	**2373**	..34/066..	20	2198	50	758	757	758	50
35	103	**2439**	..35/066..	20	2264	50	780	779	780	50
36	106	**2505**	..36/066..	20	2330	50	802	801	802	50
37	109	**2571**	..37/066..	20	2396	50	824	823	824	50
38	112	**2637**	..38/066..	20	2462	50	846	845	846	50
39	115	**2703**	..39/066..	20	2528	50	868	867	868	50
40	118	**2769**	..40/066..	20	2594	50	890	889	890	50
42	124	**2901**	..42/066..	20	2726	50	934	933	934	50
43	127	**2967**	..43/066..	20	2792	50	956	955	956	50
44	130	**3033**	..44/066..	20	2858	50	978	977	978	50
45	133	**3099**	..45/066..	20	2924	50	1000	999	1000	50
46	136	**3165**	..46/066..	20	2990	50	1022	1021	1022	50
47	139	**3231**	..47/066..	20	3056	50	1044	1043	1044	50
48	142	**3297**	..48/066..	20	3122	50	1066	1065	1066	50
50	148	**3429**	..50/066..	20	3254	50	1110	1109	1110	50
51	151	**3495**	..51/066..	20	3320	50	1132	1131	1132	50
52	154	**3561**	..52/066..	20	3386	50	1154	1153	1154	50
53	157	**3627**	..53/066..	20	3452	50	1176	1175	1176	50
54	160	**3693**	..54/066..	20	3518	50	1198	1197	1198	50
55	163	**3759**	..55/066..	20	3584	50	1220	1219	1220	50
56	166	**3825**	..56/066..	20	3650	50	1242	1241	1242	50
58	172	**3957**	..58/066..	20	3782	50	1286	1285	1286	50
59	175	**4023**	..59/066..	20	3848	50	1308	1307	1308	50
60	178	**4089**	..60/066..	20	3914	50	1330	1329	1330	50
61	181	**4155**	..61/066..	20	3980	50	1352	1351	1352	50
62	184	**4221**	..62/066..	20	4046	50	1374	1373	1374	50
63	187	**4287**	..63/066..	20	4112	50	1396	1395	1396	50
64	190	**4353**	..64/066..	20	4178	50	1418	1417	1418	50

Length variants D.ILGT/S.ILGT with channel grid 66 mm +2

Grid code 066+2 ("+2" = 2 add. channels at the top with grid 100 and 20mm)

Example: "03/066+2" = 3x grid 66 + top 1x grid 100 + 1x 20, thus channels at the height of (mm) 20, 86, 152, 252, 272

Number of channels	Number of light beams	Overall length h (mm)	ILGT variant	Bottom channel at the height of (mm)	Top channel of the normal grid at the height of (mm)	Second additional channel at the height of (mm)	Top additional channel at the height of (mm)	Dimension b1 (mm)	Dimension b2 (mm)	Dimension b3 (mm)	Dimension b4 (mm)	Dimension b5 (mm)
2+2	10	**261**	..02/066+2..	20	86	186	206	50	0	161	0	50
3+2	13	**327**	..03/066+2..	20	152	252	272	50	0	227	0	50
4+2	16	**393**	..04/066+2..	20	218	318	338	50	0	293	0	50
5+2	19	**459**	..05/066+2..	20	284	384	404	50	0	359	0	50
6+2	22	**525**	..06/066+2..	20	350	450	470	50	212.5	0	212.5	50
7+2	25	**591**	..07/066+2..	20	416	516	536	50	245.5	0	245.5	50
8+2	28	**657**	..08/066+2..	20	482	582	602	50	278.5	0	278.5	50
10+2	34	**789**	..10/066+2..	20	614	714	734	50	345.10	0	345.10	50
11+2	37	**855**	..11/066+2..	20	680	780	800	50	377.5	0	377.5	50
12+2	40	**921**	..12/066+2..	20	746	846	866	50	410.5	0	410.5	50
13+2	43	**987**	..13/066+2..	20	812	912	932	50	443.5	0	443.5	50
14+2	46	**1053**	..14/066+2..	20	878	978	998	50	318	317	318	50
15+2	49	**1119**	..15/066+2..	20	944	1044	1064	50	340	339	340	50
16+2	52	**1185**	..16/066+2..	20	1010	1110	1130	50	362	361	362	50
18+2	58	**1317**	..18/066+2..	20	1142	1242	1262	50	406	405	406	50
19+2	61	**1383**	..19/066+2..	20	1208	1308	1328	50	428	427	428	50
20+2	64	**1449**	..20/066+2..	20	1274	1374	1394	50	450	449	450	50
21+2	67	**1515**	..21/066+2..	20	1340	1440	1460	50	472	471	472	50
22+2	70	**1581**	..22/066+2..	20	1406	1506	1526	50	494	493	494	50
23+2	73	**1647**	..23/066+2..	20	1472	1572	1592	50	516	515	516	50
24+2	76	**1713**	..24/066+2..	20	1538	1638	1658	50	538	537	538	50
26+2	82	**1845**	..26/066+2..	20	1670	1770	1790	50	582	581	582	50
27+2	85	**1911**	..27/066+2..	20	1736	1836	1856	50	604	603	604	50
28+2	88	**1977**	..28/066+2..	20	1802	1902	1922	50	626	625	626	50
29+2	91	**2043**	..29/066+2..	20	1868	1968	1988	50	648	647	648	50
30+2	94	**2109**	..30/066+2..	20	1934	2034	2054	50	670	669	670	50
31+2	97	**2175**	..31/066+2..	20	2000	2100	2120	50	692	691	692	50
32+2	100	**2241**	..32/066+2..	20	2066	2166	2186	50	714	713	714	50
34+2	106	**2373**	..34/066+2..	20	2198	2298	2318	50	758	757	758	50
35+2	109	**2439**	..35/066+2..	20	2264	2364	2384	50	780	779	780	50
36+2	112	**2505**	..36/066+2..	20	2330	2430	2450	50	802	801	802	50
37+2	115	**2571**	..37/066+2..	20	2396	2496	2516	50	824	823	824	50
38+2	118	**2637**	..38/066+2..	20	2462	2562	2582	50	846	845	846	50
39+2	121	**2703**	..39/066+2..	20	2528	2628	2648	50	868	867	868	50
40+2	124	**2769**	..40/066+2..	20	2594	2694	2714	50	890	889	890	50
42+2	130	**2901**	..42/066+2..	20	2726	2826	2846	50	934	933	934	50
43+2	133	**2967**	..43/066+2..	20	2792	2892	2912	50	956	955	956	50
44+2	136	**3033**	..44/066+2..	20	2858	2958	2978	50	978	977	978	50
45+2	139	**3099**	..45/066+2..	20	2924	3024	3044	50	1000	999	1000	50
46+2	142	**3165**	..46/066+2..	20	2990	3090	3110	50	1022	1021	1022	50
47+2	145	**3231**	..47/066+2..	20	3056	3156	3176	50	1044	1043	1044	50
48+2	148	**3297**	..48/066+2..	20	3122	3222	3242	50	1066	1065	1066	50
50+2	154	**3429**	..50/066+2..	20	3254	3354	3374	50	1110	1109	1110	50
51+2	157	**3495**	..51/066+2..	20	3320	3420	3440	50	1132	1131	1132	50
52+2	160	**3561**	..52/066+2..	20	3386	3486	3506	50	1154	1153	1154	50
53+2	163	**3627**	..53/066+2..	20	3452	3552	3572	50	1176	1175	1176	50
54+2	166	**3693**	..54/066+2..	20	3518	3618	3638	50	1198	1197	1198	50
55+2	169	**3759**	..55/066+2..	20	3584	3684	3704	50	1220	1219	1220	50
56+2	172	**3825**	..56/066+2..	20	3650	3750	3770	50	1242	1241	1242	50

Length variants D.ILGT with channel grid 40 mm

Grid code 040

(Not available as S.ILGT, please select it from the right table.)

Number of channels	Number of light beams	Overall length h (mm)	ILGT variant	Bottom channel at the height of (mm)	Top channel at the height of (mm)	Dimension b1 (mm)	Dimension b2 (mm)	Dimension b3 (mm)	Dimension b4 (mm)	Dimension b5 (mm)
3	7	**275**	..03/040..	20	100	50	0	175	0	50
4	10	**315**	..04/040..	20	140	50	0	215	0	50
5	13	**355**	..05/040..	20	180	50	0	255	0	50
6	16	**395**	..06/040..	20	220	50	0	295	0	50
7	19	**435**	..07/040..	20	260	50	0	335	0	50
8	22	**475**	..08/040..	20	300	50	0	375	0	50
10	28	**555**	..10/040..	20	380	50	227,5	0	227,5	50
11	31	**595**	..11/040..	20	420	50	247,5	0	247,5	50
12	34	**635**	..12/040..	20	460	50	267,5	0	267,5	50
13	37	**675**	..13/040..	20	500	50	287,5	0	287,5	50
14	40	**715**	..14/040..	20	540	50	307,5	0	307,5	50
15	43	**755**	..15/040..	20	580	50	327,5	0	327,5	50
16	46	**795**	..16/040..	20	620	50	347,5	0	347,5	50
18	52	**875**	..18/040..	20	700	50	387,5	0	387,5	50
19	55	**915**	..19/040..	20	740	50	407,5	0	407,5	50
20	58	**955**	..20/040..	20	780	50	427,5	0	427,5	50
21	61	**995**	..21/040..	20	820	50	447,5	0	447,5	50
22	64	**1035**	..22/040..	20	860	50	312	311	312	50
23	67	**1075**	..23/040..	20	900	50	325	325	325	50
24	70	**1115**	..24/040..	20	940	50	338	339	338	50
26	76	**1195**	..26/040..	20	1020	50	365	365	365	50
27	79	**1235**	..27/040..	20	1060	50	378	379	378	50
28	82	**1275**	..28/040..	20	1100	50	392	391	392	50
29	85	**1315**	..29/040..	20	1140	50	405	405	405	50
30	88	**1355**	..30/040..	20	1180	50	418	419	418	50
31	91	**1395**	..31/040..	20	1220	50	432	431	432	50
32	94	**1435**	..32/040..	20	1260	50	445	445	445	50
34	100	**1515**	..34/040..	20	1340	50	472	471	472	50
35	103	**1555**	..35/040..	20	1380	50	485	485	485	50
36	106	**1595**	..36/040..	20	1420	50	498	499	498	50
37	109	**1635**	..37/040..	20	1460	50	512	511	512	50
38	112	**1675**	..38/040..	20	1500	50	525	525	525	50
39	115	**1715**	..39/040..	20	1540	50	538	539	538	50
40	118	**1755**	..40/040..	20	1580	50	552	551	552	50
42	124	**1835**	..42/040..	20	1660	50	578	579	578	50
43	127	**1875**	..43/040..	20	1700	50	592	591	592	50
44	130	**1915**	..44/040..	20	1740	50	605	605	605	50
45	133	**1955**	..45/040..	20	1780	50	618	619	618	50
46	136	**1995**	..46/040..	20	1820	50	632	631	632	50
47	139	**2035**	..47/040..	20	1860	50	645	645	645	50
48	142	**2075**	..48/040..	20	1900	50	658	659	658	50
50	148	**2155**	..50/040..	20	1980	50	685	685	685	50
51	151	**2195**	..51/040..	20	2020	50	698	699	698	50
52	154	**2235**	..52/040..	20	2060	50	712	711	712	50
53	157	**2275**	..53/040..	20	2100	50	725	725	725	50
54	160	**2315**	..54/040..	20	2140	50	738	739	738	50
55	163	**2355**	..55/040..	20	2180	50	752	751	752	50
56	166	**2395**	..56/040..	20	2220	50	765	765	765	50
58	172	**2475**	..58/040..	20	2300	50	792	791	792	50
59	175	**2515**	..59/040..	20	2340	50	805	805	805	50
60	178	**2555**	..60/040..	20	2380	50	818	819	818	50
61	181	**2595**	..61/040..	20	2420	50	832	831	832	50
62	184	**2635**	..62/040..	20	2460	50	845	845	845	50
63	187	**2675**	..63/040..	20	2500	50	858	859	858	50
64	190	**2715**	..64/040..	20	2540	50	872	871	872	50

Length variants D.ILGT/S.ILGT with channel grid 40 mm +2

Grid code 040+2 ("+2" = 2 add. channels at the top with grid 100 and 20mm)

Example: "03/040+2" = 3x grid 40 + top 1x grid 100 + 1x 20, thus channels at the height of (mm) 20, 60, 100, 200, 220

Number of channels	Number of light beams	Overall length h (mm)	ILGT variant	Bottom channel at the height of (mm)	Top channel of the normal grid at the height of (mm)	Second additional channel at the height of (mm)	Top additional channel at the height of (mm)	Dimension b1 (mm)	Dimension b2 (mm)	Dimension b3 (mm)	Dimension b4 (mm)	Dimension b5 (mm)
2+2	10	**235**	..02/04+2..	20	60	160	180	50	0	135	0	50
3+2	13	**275**	..03/04+2..	20	100	200	220	50	0	175	0	50
4+2	16	**315**	..04/04+2..	20	140	240	260	50	0	215	0	50
5+2	19	**355**	..05/04+2..	20	180	280	300	50	0	255	0	50
6+2	22	**395**	..06/04+2..	20	220	320	340	50	0	295	0	50
7+2	25	**435**	..07/04+2..	20	260	360	380	50	0	335	0	50
8+2	28	**475**	..08/04+2..	20	300	400	420	50	0	375	0	50
10+2	34	**555**	..10/04+2..	20	380	480	500	50	227,5	0	227,5	50
11+2	37	**595**	..11/04+2..	20	420	520	540	50	247,5	0	247,5	50
12+2	40	**635**	..12/04+2..	20	460	560	580	50	267,5	0	267,5	50
13+2	43	**675**	..13/04+2..	20	500	600	620	50	287,5	0	287,5	50
14+2	46	**715**	..14/04+2..	20	540	640	660	50	307,5	0	307,5	50
15+2	49	**755**	..15/04+2..	20	580	680	700	50	327,5	0	327,5	50
16+2	52	**795**	..16/04+2..	20	620	720	740	50	347,5	0	347,5	50
18+2	58	**875**	..18/04+2..	20	700	800	820	50	387,5	0	387,5	50
19+2	61	**915**	..19/04+2..	20	740	840	860	50	407,5	0	407,5	50
20+2	64	**955**	..20/04+2..	20	780	880	900	50	427,5	0	427,5	50
21+2	67	**995**	..21/04+2..	20	820	920	940	50	447,5	0	447,5	50
22+2	70	**1035**	..22/04+2..	20	860	960	980	50	312	311	312	50
23+2	73	**1075**	..23/04+2..	20	900	1000	1020	50	325	325	325	50
24+2	76	**1115**	..24/04+2..	20	940	1040	1060	50	338	339	338	50
26+2	82	**1195**	..26/04+2..	20	1020	1120	1140	50	365	365	365	50
27+2	85	**1235**	..27/04+2..	20	1060	1160	1180	50	378	379	378	50
28+2	88	**1275**	..28/04+2..	20	1100	1200	1220	50	392	391	392	50
29+2	91	**1315**	..29/04+2..	20	1140	1240	1260	50	405	405	405	50
30+2	94	**1355**	..30/04+2..	20	1180	1280	1300	50	418	419	418	50
31+2	97	**1395**	..31/04+2..	20	1220	1320	1340	50	432	431	432	50
32+2	100	**1435**	..32/04+2..	20	1260	1360	1380	50	445	445	445	50
34+2	106	**1515**	..34/04+2..	20	1340	1440	1460	50	472	471	472	50
35+2	109	**1555**	..35/04+2..	20	1380	1480	1500	50	485	485	485	50
36+2	112	**1595**	..36/04+2..	20	1420	1520	1540	50	498	499	498	50
37+2	115	**1635**	..37/04+2..	20	1460	1560	1580	50	512	511	512	50
38+2	118	**1675**	..38/04+2..	20	1500	1600	1620	50	525	525	525	50
39+2	121	**1715**	..39/04+2..	20	1540	1640	1660	50	538	539	538	50
40+2	124	**1755**	..40/04+2..	20	1580	1680	1700	50	552	551	552	50
42+2	130	**1835**	..42/04+2..	20	1660	1760	1780	50	578	579	578	50
43+2	133	**1875**	..43/04+2..	20	1700	1800	1820	50	592	591	592	50
44+2	136	**1915**	..44/04+2..	20	1740	1840	1860	50	605	605	605	50
45+2	139	**1955**	..45/04+2..	20	1780	1880	1900	50	618	619	618	50
46+2	142	**1995**	..46/04+2..	20	1820	1920	1940	50	632	631	632	50
47+2	145	**2035**	..47/04+2..	20	1860	1960	1980	50	645	645	645	50
48+2	148	**2075**	..48/04+2..	20	1900	2000	2020	50	658	659	658	50
50+2	154	**2155**	..50/04+2..	20	1980	2080	2100	50	685	685	685	50
51+2	157	**2195**	..51/04+2..	20	2020	2120	2140	50	698	699	698	50
52+2	160	**2235**	..52/04+2..	20	2060	2160	2180	50	712	711	712	50
53+2	163	**2275**	..53/04+2..	20	2100	2200	2220	50	725	725	725	50
54+2	166	**2315**	..54/04+2..	20	2140	2240	2260	50	738	739	738	50
55+2	169	**2355**	..55/04+2..	20	2180	2280	2300	50	752	751	752	50
56+2	172	**2395**	..56/04+2..	20	2220	2320	2340	50	765	765	765	50

EC Type-Examination Certificate

TÜVRheinland®

ZERTIFIKAT
CERTIFICATE

EC Type-Examination Certificate

Reg.-Nr./No.: 01/205/5384.00/14

Prüfgegenstand **Product tested**	Berührungslos wirkende Schutzeinrichtung (BWS Typ 2) für Tür- und Toranwendungen Active Opto-electronic Protective Device (AOPD Type 2) for door and gate applications	**Zertifikats-inhaber** **Certificate holder**	STRACK LIFT AUTOMATION GmbH Lise-Meitner-Straße 2 42489 Wülfrath Germany
Typbezeichnung **Type designation**	S.ILGT, D.ILGT	**Hersteller** **Manufacturer**	wie Zertifikatsinhaber see certificate holder
Prüfgrundlagen **Codes and standards forming the basis of testing**	EN 61496-1:2004+ A1:2008 + AC:2010 IEC 61496-1:2012 IEC 61496-2:2013 EN ISO 13849-1:2008 + AC:2009		EN 62061:2005 + AC:2010 + A1:2013 EN 61508 Parts 1-7:2010 EN 12978:2003 + A1:2009 (in extracts) prEN 12453:2005 (in extracts)
Bestimmungsgemäße Verwendung **Intended application**	Absicherung an Türen und Toren. Das S.ILGT erfüllt die Anforderungen an eine BWS Typ 2 nach IEC 61496-1/-2 und kann als E-Einrichtung nach EN 12453 eingesetzt werden. Das D.ILGT erfüllt bis auf den effektiven Öffnungswinkel (EAA) alle Anforderungen an eine BWS Typ 2 und kann als Kombination aus C- und D-Einrichtungen gemäß EN 12453 eingesetzt werden. Alle Lichtgitter erfüllen Kat. 2 / PL c nach EN ISO 13849-1 und SIL CL 1 nach EN 62061 / IEC 61508. Safeguarding at doors and gates. The S.ILGT complies with the requirements for AOPD Type 2 acc. to IEC 61496-1/-2 and can be used as E-type mean acc. to EN 12453. The D.ILGT complies with the requirements for AOPD Type 2 except for the effective aperture angle (EAA) and can be used as a combination of C- and D-type means acc. to EN 12453. All light curtains comply with Cat. 2 / PL c acc. to EN ISO 13849-1 and SIL CL 1 acc. to EN 62061 / IEC 61508.		
Besondere Bedingungen **Specific requirements**	Die Hinweise in der zugehörigen Installations- und Betriebsanleitung sind zu beachten. Für den Einsatz in Tür- und Tor-Anwendungen gemäß EN 12453 ist eine testende Torsteuerung einzusetzen. Bei Anwendung des D.ILGT muss als Ergebnis einer Risikoanalyse gezeigt werden, dass Umspiegelungen während der Torfahrt nicht zu einem gefährlichen Ausfall der Schutzeinrichtung führen können. The instructions of the associated Installation and Operating Manual shall be considered. For use in door and gate applications acc. to EN 12453 a testing door controller has to be used. When using the D.ILGT it has to be shown as the result of a risk analysis, that extraneous reflections during the door movement do not result in a fail to danger of the protective equipment.		
Es wird bestätigt, dass der Prüfgegenstand mit den Anforderungen nach Anhang I der Richtlinie 2006/42/EG über Maschinen übereinstimmt. It is confirmed, that the product under test complies with the requirements for machines defined in Annex I of the EC Directive 2006/42/EC.			
Dieses Zertifikat ist gültig bis 11.04.2019. This certificate is valid until 2019-04-11.			

TÜVRheinland CERTIFIED

Functional Safety Type Approved

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Der Ausstellung dieses Zertifikates liegt eine Prüfung zugrunde, deren Ergebnisse im Bericht-Nr. 968/M 421.00/14 vom 11.04.2014 dokumentiert sind.
Der Inhaber eines für den Prüfgegenstand gültigen Genehmigungs-Ausweises ist berechtigt, die mit dem Prüfgegenstand übereinstimmenden Erzeugnisse mit dem abgebildeten Prüfzeichen zu versehen.
The issue of this certificate is based upon an examination, whose results are documented in report-no.: 968/M 421.00/14 dated 2014-04-11.
The holder of a valid licence certificate for the product tested is authorized to affix the test mark shown opposite to products, which are identical with the product tested.

TÜVRheinland 0035 Notified Body

Berlin, 2014-04-11

Certification Body for Machinery, NB 0035

Dipl.-Ing. Eberhard Frejno

TÜV Rheinland Industrie Service GmbH, Alboinstr. 56, 12103 Berlin / Germany
Tel.: +49 30 7562-1557, Fax: +49 30 7562-1370, E-Mail: industrie-service@de.tuv.com

Technical data

General

Nominal range	m	D.ILGT: 0.1 - 12 (plus reserve) / mountable firmly or in a moveable manner S.ILGT: 1 - 12 (plus reserve) / only firmly mountable	
Height of installation	m	2000 above mean see level	
Mounting position		randomly	
Ambient temperature	°C	Operation/storage -25 to +55, transportation -25 to +70 (no icing and condensation)	
Ambient relative humidity		Operation/storage/transportation 5% to 95% (no direct weather, no permanent immersion in water)	
Connecting cable		Standard cable:	Material PVC / structure LIYY (fine wire, unshielded) / good resistance to oil
		Highly flexible cable:	Material PUR / flame-retardant/ silicone, halogen and PVC-free / good resistance to chemicals and oils / to microbes and hydrolyses / good weld-field immunity / very good weather resistance / drag chain suitable
Max. response times (independent on the number of channels and grids)	ms	for parallel beams:	Light path is interrupted: 45 / light path is cleared: 57 / test input set: 68 / free again: 351 / operating voltage switch-on: 530
		for crossed beams:	light path is interrupted: 85 / light path is cleared: 71 / test input set: 144 / free again: 503 / operating voltage switch-on: 570

Mechanics

Weight per sensor strip	g	530 per m without cable +32 in addition to each metre of cable
Material sensor strip		Sensor strip made from mill-finish aluminium, end pieces made from black plastic
Material front window		Acrylic glass, clear transparent
System of protection EN 60529		IP68 (install it protected against weather influences)

Optics

Wavelength of the light beams	nm	850
Modulation frequency of the light beams	kHz	250
Opening angle of the light beams	°	D.ILGT: > ±10 / S.ILGT: according to EN 61496-2
Foreign light tolerance	Lux	direct and low-frequency light, e.g. sun: >120,000, other light sources according to EN 61496-2

Electronics

Operating voltage (min. - max.)	V	11-30 DC, ripples max. 10%	
Maximum current consumption per pair	mA	Standard:	D.ILGT: 42+2.1 per channel (expl: D.ILGT, 16 channels: 76 mA) S.ILGT: 42 + 0.7 per channel (example: S.ILGT, 16 channels: 54 mA)
		with heating system in addition (@TU less than 10-15°C):	grid 040 and 066, 8 channels each: + 118 @12V / + 237 @24V grid 132, 4 channels each: + 118 @12V / + 237 @24V
Switching manner		1 closing device potential-free: electronic contact, closed with a clear light path	
Max. voltage switched	V	35 AC / DC (ohmic load)	
Max. current switched	mA	150 @ TU=20°C / 100 @ TU=55°C (ohmic load)	
Voltage drop at the output min. / typ. / max.	V	1.4 / 1.7 / 2.15 (depending on temperature and current)	
Max. leakage current with open output	µA	13 @ 20°C / 60 @ 55°C	
Protection against reverse polarity / protection against short-circuit		yes / yes	
Conformity regard. safety of machinery or gates		(see EC type-examination certificate)	
EMC Conformity		(see EC type-examination certificate)	

Status displays

Transmitter		green LED	on = transmitter is in operation
		red LED	flashes = the transmitter has detected a security error (error number is shown)
		yellow LED	flashes = LED of the diagnostic memory (included in delivery from autumn 2014)
Receiver		green LED	on = light path is clear
			off = light path is interrupted
			flashes = factory default, output is off. The ILGT is waiting for the commissioning.
		red LED	on (green off) = light path is interrupted
			flashes = the receiver has detected security error (error number is shown)
		yellow LED	flashes = LED of the diagnostic memory (included in delivery from autumn 2014)

Blanking

The blanking procedure works with pattern and speed detection. To this end, only the edge of the gate is of interest, not the material above. Therefore, the gate wing material may also be transparent or a thin film. However, the blanking condition is that for the ILGT the edge of the gate, including a possibly available rubber is opaque. It is also important that with a closed gate, the bottom channel is interrupted.

Min. height of the edge of the gate to max. gate closing speed 1 m/s	mm	grid code 040: 65 grid code 066: 90 grid code 132: 160	grid code 040+2: 125 grid code 066+2: 125 grid code 132+2: 160	Note:	At max. gate speed 2 m/s the required height increases by 20 mm, at max. 3-6 m/s see manual

Contact

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