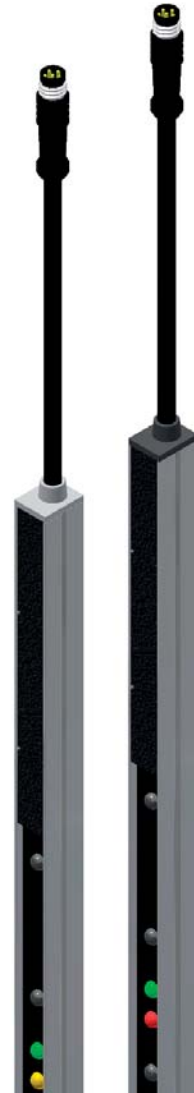
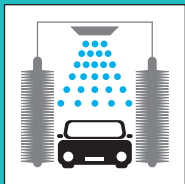




- Slimline design
- Wide range
- Fully encapsulated electronics
- Suitable for car washes



Door light curtain LIGI-07

Only available to commercial specialists



optoelectronic systems

Operating Gates Safely

Provisional data sheet - subject to change

LIGI 07 technical Information

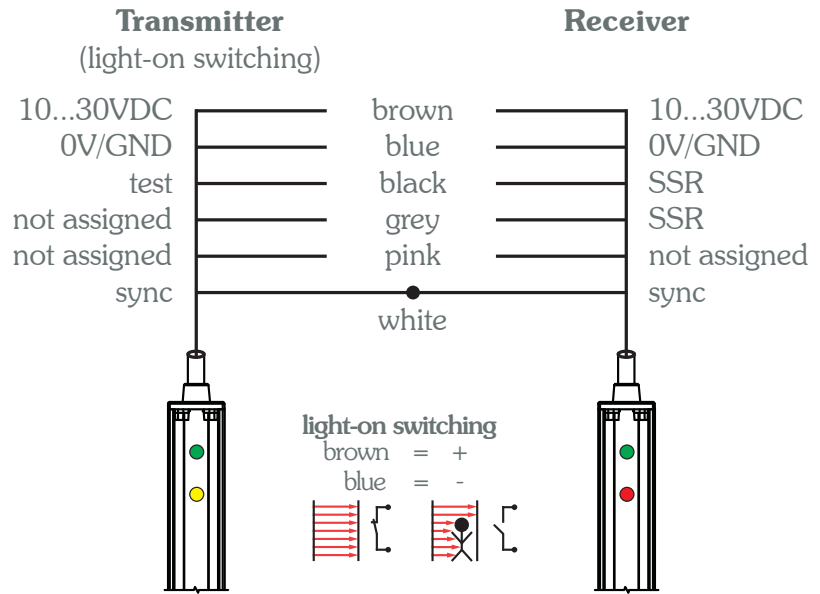
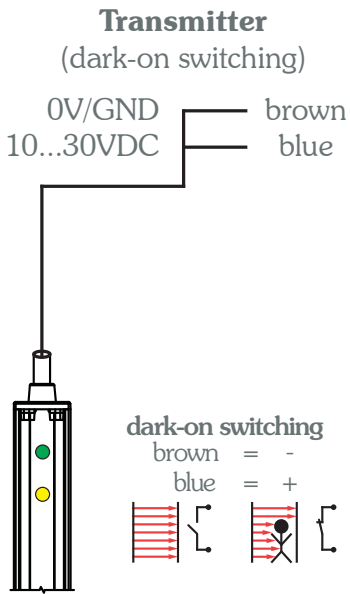
- Powerful, for doors up to 10 m wide
- Can be built into the closing level thanks to the door function
- Extremely robust thanks to fully encapsulated light curtain
- Direct, front attachments
- IP 67, impervious to environmental influences
- Suitable for car washes
- Universal OSE or semiconductor relay output versions
- Automatic, electronic door width adjustment
- Integrated service diagnostics
- Highly resistant to extraneous light
- Compact housing, just 12x15 mm
- Extensive range of length and beam distribution versions available
- Lasered nameplate, legible from front

Just like all of Witt's products, the new LIGI 07 has been designed especially for the harsh usage conditions of industrial doors. The highly compact and fully encapsulated door light curtain measuring 12x15 mm offers perfect protection against moisture and vibrations in harsh everyday door use. The LIGI 07 features state-of-the-art electronics and even sets standards for the future with its intelligent software. Its compatibility with all the standard door controllers means that it can be used universally in almost all door systems.

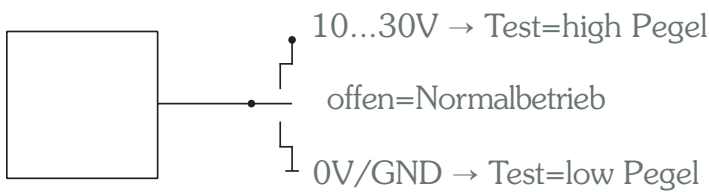
Technical data

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
Illuminant	infrared modulated
OSE output	approx. 950 Hz, alternating signal, 4 V 20 mA, short-circuit-proof, protected against reverse polarity, max. 100 nF, max. 30 µA leakage current, integrated pull-down 220 Ω
SSR solid state relay	100 mA, short-circuit-proof, max. 220 nF, max. 30 V DC, max. 21 V AC, Rs on < 35 Ω, leakage current < 100 µA
Response time	< 100 ms
Reactivation time	< 400 ms
Ambient light safety	≥ 100 klux
Housing material	Aluminium profile fully encapsulated in 2 K epoxy resin
Connection	M8 6-pin plug
Degree of protection	IP67 as per EN60529
Operating temperature	-20 to +60°C
Storage temperature	-30 to +70°C

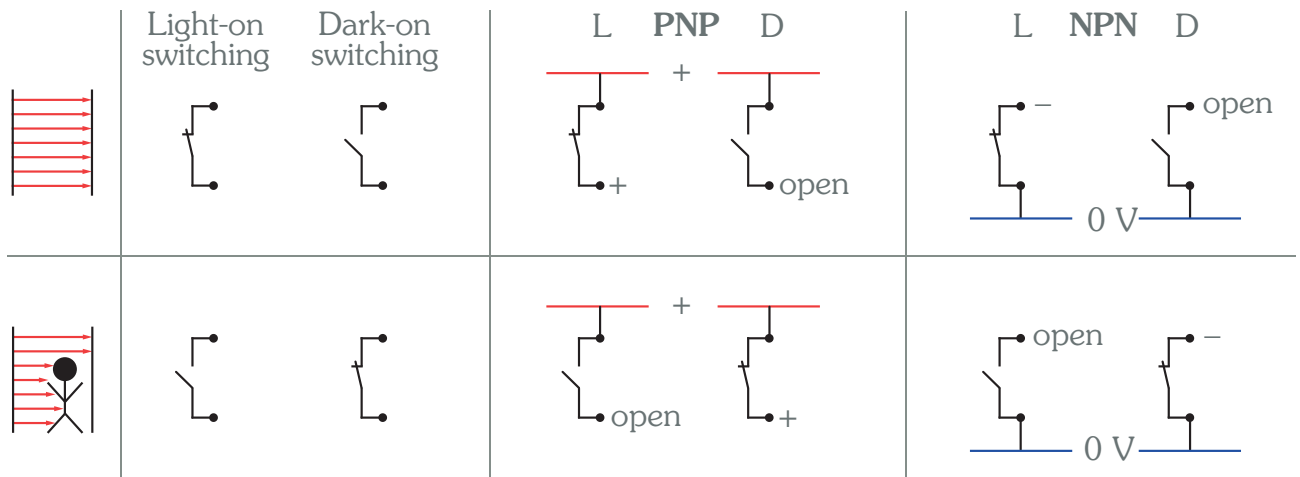
SSR solid state relay



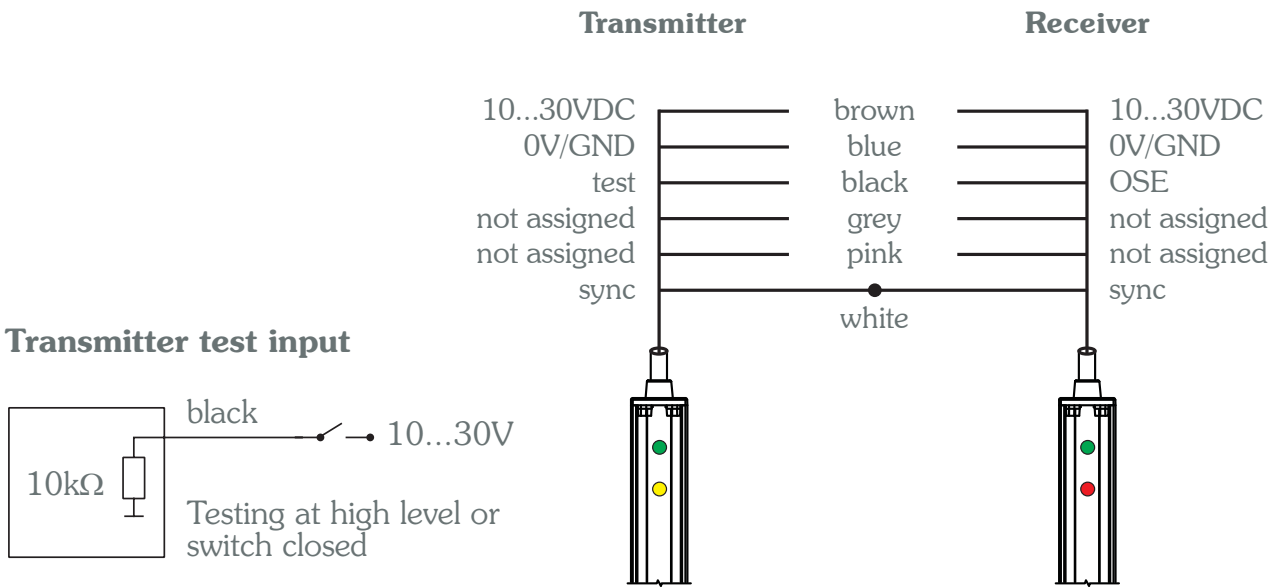
Transmitter test input



SSR solid state relay output

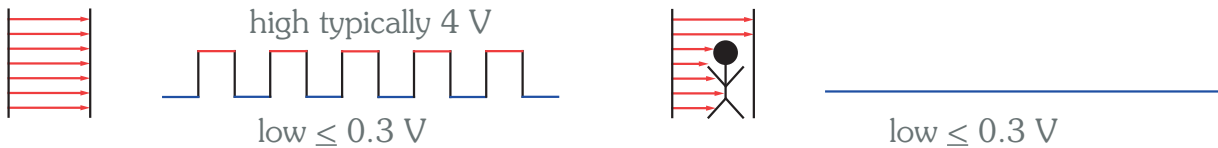


OSE output



OSE

I = max. 20 mA, typically 950 Hz



Service diagnostics

Key

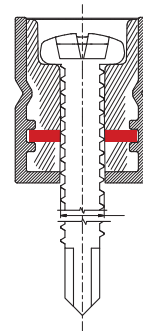
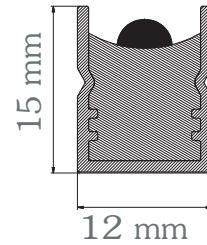
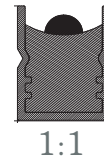
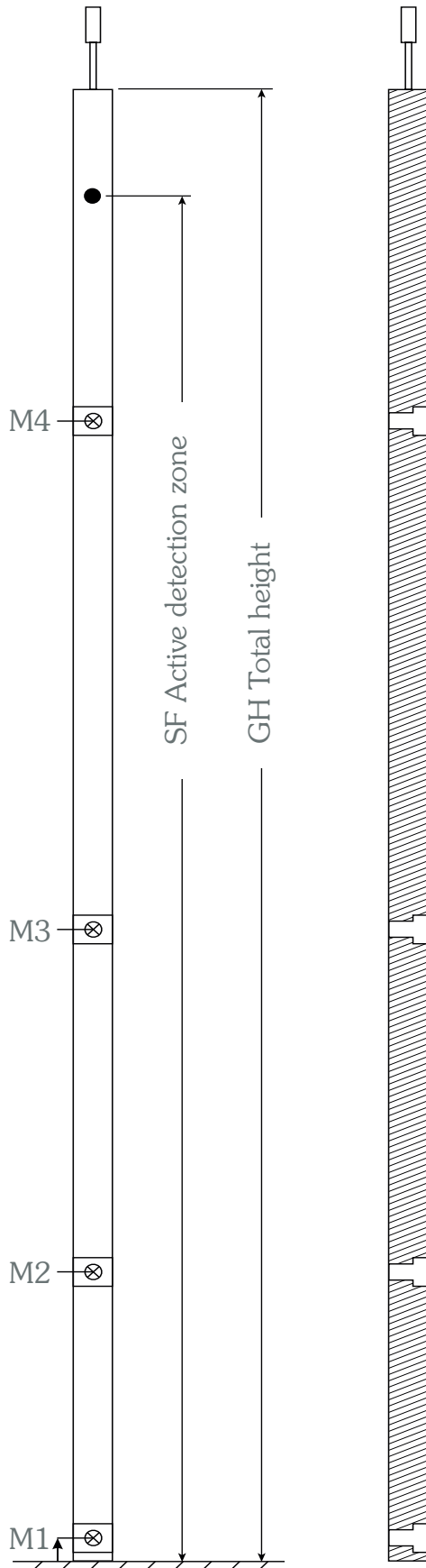
- LED on
- ★ LED flashing
- ⊗ LED off

Error diagnostics is indicated by flash code in the event of a malfunction.

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

Dimensions

Attachment positions, see type table



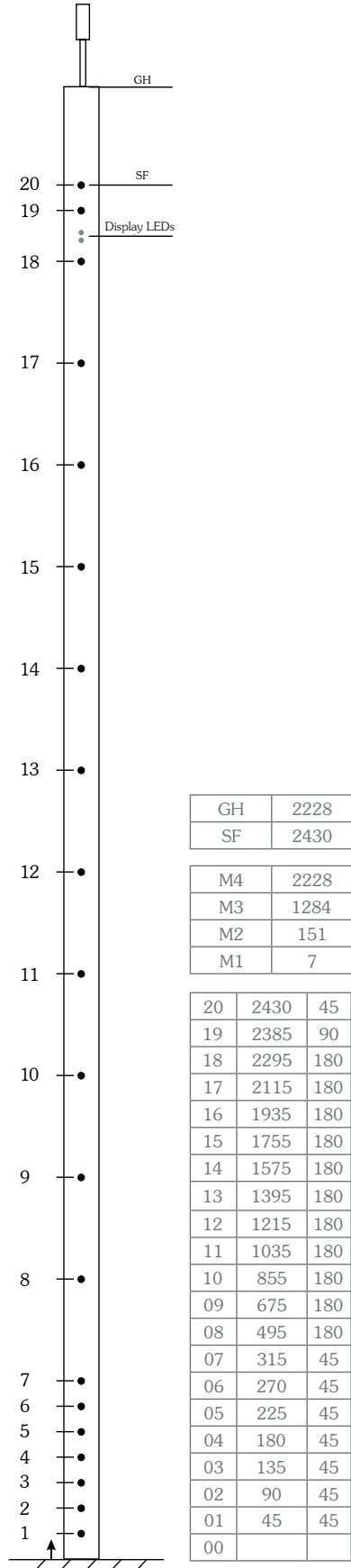
Caution!
Drilling a hole > 4 mm
will damage the electronics

max. Ø 4 mm

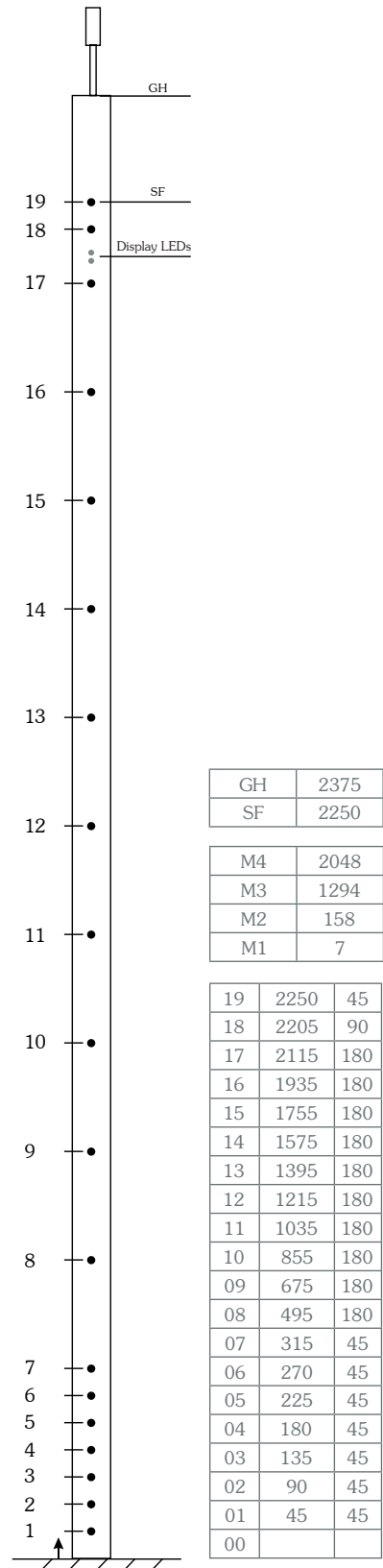


NORMATIVE BEAM DISTRIBUTION (C VERSION)

C20 (SF 2430mm)

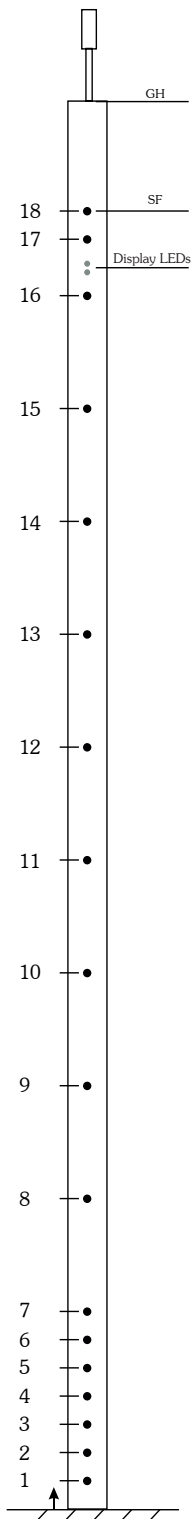


C19 (SF 2250mm)



C18 (SF 2070mm)

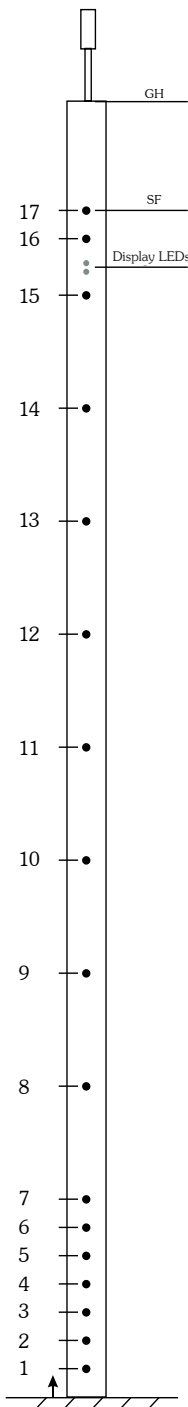
C17 (SF 1890mm)



GH	2195
SF	2070

M4	1868
M3	1284
M2	151
M1	7

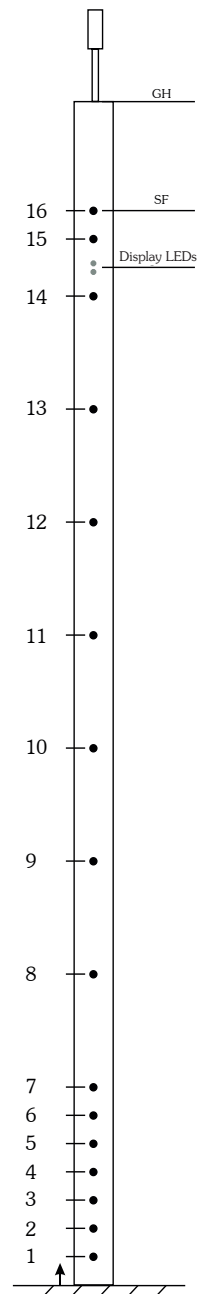
18	2070	45
17	2025	90
16	1935	180
15	1755	180
14	1575	180
13	1395	180
12	1215	180
11	1035	180
10	855	180
09	675	180
08	495	180
07	315	45
06	270	45
05	225	45
04	180	45
03	135	45
02	90	45
01	45	45
00		



GH	2015
SF	1890

M4	1688
M3	1294
M2	158
M1	7

17	1890	45
16	1845	90
15	1755	180
14	1575	180
13	1395	180
12	1215	180
11	1035	180
10	855	180
09	675	180
08	495	180
07	315	45
06	270	45
05	225	45
04	180	45
03	135	45
02	90	45
01	45	45
00		



GH	1835
SF	1710

M4	1508
M3	788
M2	151
M1	7

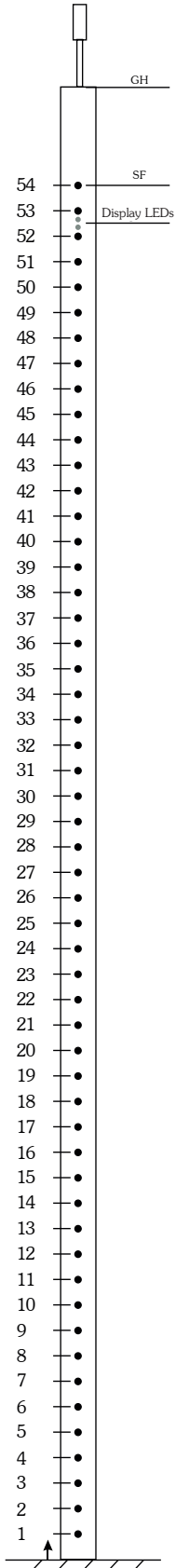
16	1845	45
15	1755	90
14	1575	180
13	1395	180
12	1215	180
11	1035	180
10	855	180
09	675	180
08	495	180
07	315	45
06	270	45
05	225	45
04	180	45
03	135	45
02	90	45
01	45	45
00		

HIGH BEAM DISTRIBUTION (A VERSION)

A54 (SF 2430mm)

GH	2555
SF	2430

M4	2228
M3	1284
M2	158
M1	7

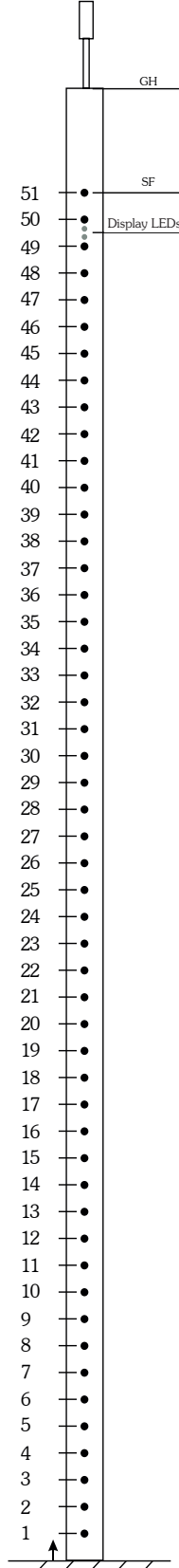


54	2430	45
53	2385	45
52	2340	45
51	2295	45
50	2250	45
49	2205	45
48	2160	45
47	2115	45
46	2070	45
45	2025	45
44	1980	45
43	1935	45
42	1890	45
41	1845	45
40	1800	45
39	1755	45
38	1710	45
37	1665	45
36	1620	45
35	1575	45
34	1530	45
33	1485	45
32	1440	45
31	1395	45
30	1350	45
29	1305	45
28	1260	45
27	1215	45
26	1170	45
25	1125	45
24	1080	45
23	1035	45
22	990	45
21	945	45
20	900	45
19	855	45
18	810	45
17	765	45
16	720	45
15	675	45
14	630	45
13	585	45
12	540	45
11	495	45
10	450	45
09	405	45
08	360	45
07	315	45
06	270	45
05	225	45
04	180	45
03	135	45
02	90	45
01	45	45
00		

A51 (SF 2295mm)

GH	2420
SF	2295

M4	2093
M3	1284
M2	158
M1	7

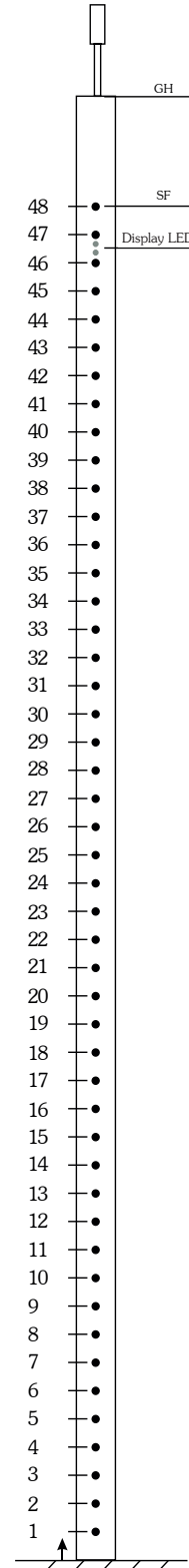


51	2295	45
50	2250	45
49	2205	45
48	2160	45
47	2115	45
46	2070	45
45	2025	45
44	1980	45
43	1935	45
42	1890	45
41	1845	45
40	1800	45
39	1755	45
38	1710	45
37	1665	45
36	1620	45
35	1575	45
34	1530	45
33	1485	45
32	1440	45
31	1395	45
30	1350	45
29	1305	45
28	1260	45
27	1215	45
26	1170	45
25	1125	45
24	1080	45
23	1035	45
22	990	45
21	945	45
20	900	45
19	855	45
18	810	45
17	765	45
16	720	45
15	675	45
14	630	45
13	585	45
12	540	45
11	495	45
10	450	45
09	405	45
08	360	45
07	315	45
06	270	45
05	225	45
04	180	45
03	135	45
02	90	45
01	45	45
00		

A48 (SF 2160mm)

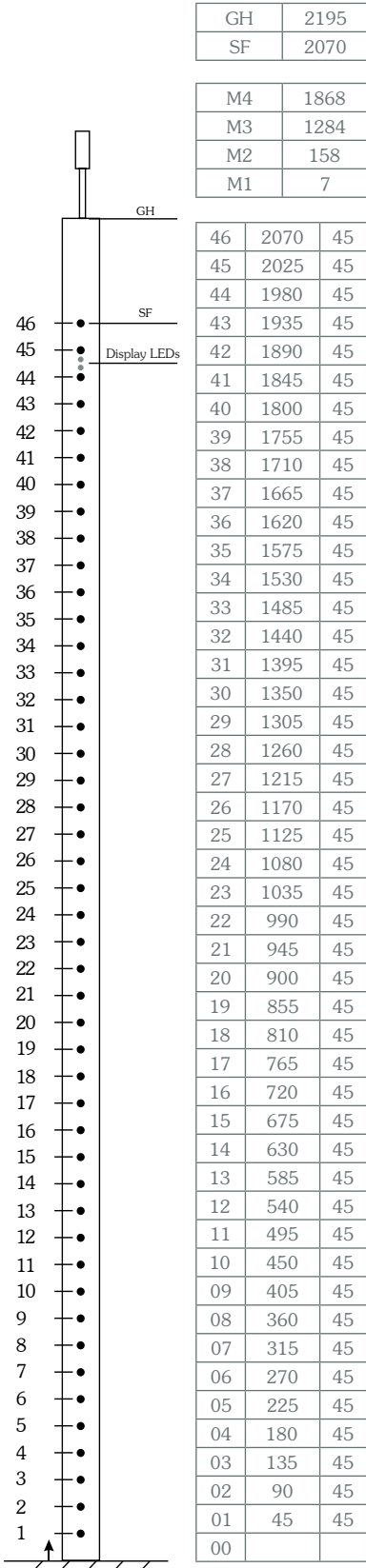
GH	2285
SF	2160

M4	1958
M3	1284
M2	158
M1	7

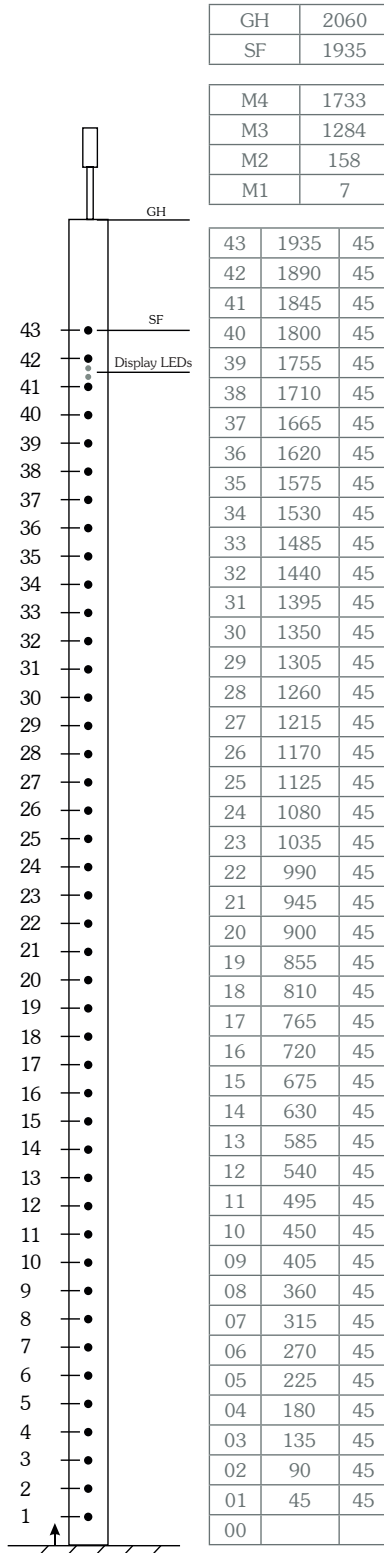


48	2160	45
47	2115	45
46	2070	45
45	2025	45
44	1980	45
43	1935	45
42	1890	45
41	1845	45
40	1800	45
39	1755	45
38	1710	45
37	1665	45
36	1620	45
35	1575	45
34	1530	45
33	1485	45
32	1440	45
31	1395	45
30	1350	45
29	1305	45
28	1260	45
27	1215	45
26	1170	45
25	1125	45
24	1080	45
23	1035	45
22	990	45
21	945	45
20	900	45
19	855	45
18	810	45
17	765	45
16	720	45
15	675	45
14	630	45
13	585	45
12	540	45
11	495	45
10	450	45
09	405	45
08	360	45
07	315	45
06	270	45
05	225	45
04	180	45
03	135	45
02	90	45
01	45	45
00		

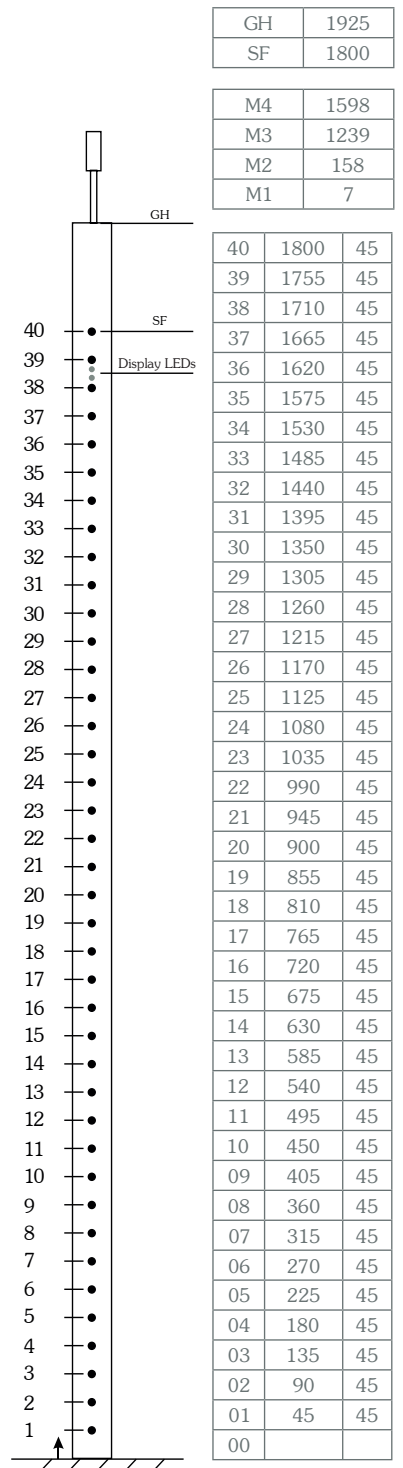
A46 (SF 2070mm)



A43 (SF 1935mm)



A40 (SF 1800mm)



Order information

All LIGI 07s come with a 6-pin plug system, line lengths 5 & 15 m.

Available output versions:

OSE output with automatic blanking & teaching tool only

SSR semiconductor relay output with light/dark toggle, only with automatic blanking

Models with normative beam distribution (C version)

Description	Number of beams	SF	GH	SSR solid state relay Item no.:	OSE output Item no.:
07 - C20	20	2430	2555	321003	321033
07 - C19	19	2250	2375	321006	321036
07 - C18	18	2070	2195	321009	321039
07 - C17	17	1890	2015	321012	321042

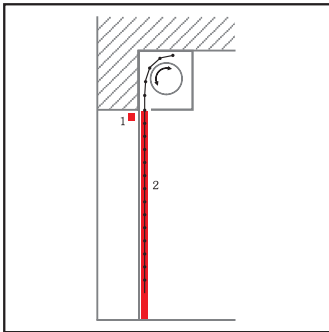
Models with maximum beam distribution (A version)

Description	Number of beams	SF	GH	SSR solid state relay Item no.:	OSE output Item no.:
07 - A54	54	2430	2555	320985	321015
07 - A51	51	2295	2420	320988	321018
07 - A48	48	2160	2285	320991	321021
07 - A46	46	2070	2195	320994	321024
07 - A43	43	1935	2060	320997	321027
07 - A40	40	1800	1925	321000	321030

SF = active detection zone

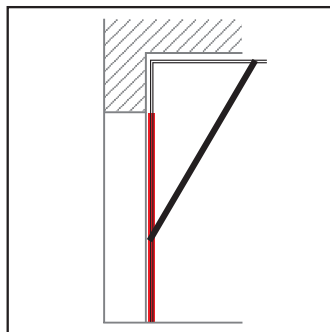
GH = total height

Rolling grille doors



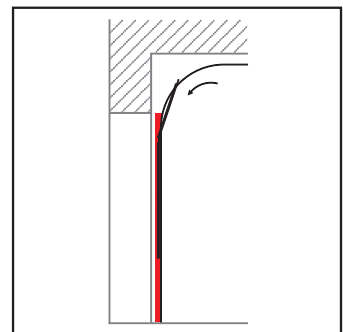
Installation in slide rail

Up-and-over doors



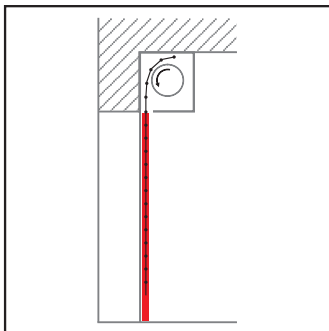
Installation in running plane of leading edge

Sectional doors



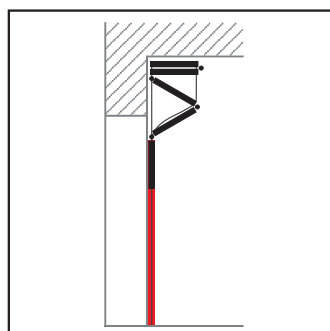
Protection of leading edge for door leaves up to 80 mm wide

Rolling grille / rapid action doors



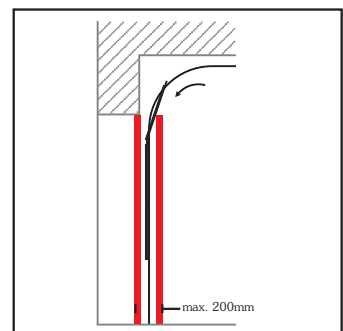
Protection of leading edge thanks to installation in slide rail

Lifting shutter doors



Protection of closing motion thanks to installation in slide rail

Sectional doors



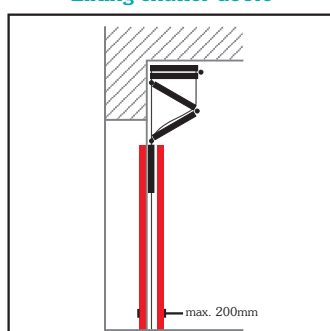
Installation in front of and behind the door leaf, e.g. with low thresholds up to 160 mm wide

Carwash doors



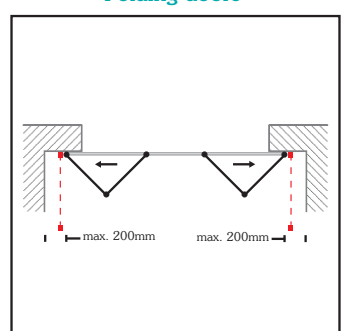
Protection of leading edge thanks to installation in slide rail

Lifting shutter doors



Installation in front of and behind the door leaf if installation in the slide rail is not possible

Folding doors



Protection against pinch points



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