

HS LC...

Light guides



Data sheet
106383_en_07

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1 Description

HS LC ... light guides are suitable for use with the following housing ranges from Phoenix Contact: ME, ME MAX, ME-IO, ME PLC, ICS, BC, EH, ECS, UCS, OCS, and HC-ALU.

All of the light guides presented here are protected against ESD. The respective ESD protection is specified in the product details.

After the soldering process, the light guides are pressed into assembly drill holes and in this way secured in place. To ensure that the light guides are integrated into the housing with perfect fit, we offer machining services.

For each product, we recommend specific SMD LEDs from OSRAM. These LEDs are suitable for fully automated assembly.

Mechanical processing of the housing is required for the light guides and other connection or operating elements. We can incorporate the necessary recesses for you.



2D and 3D housing data can be found at phoenixcontact.net/products.



Make sure you always use the latest documentation. It can be downloaded at phoenixcontact.net/products.



This document is valid for the products listed in Section “Ordering data” on page 3.

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2 Ordering data

2.1 Order key

Single light guides

HC LC	- D3,2	SP	- 8.5
	Head diameter in mm	Head shape CS = countersunk head SP = raised head (spherical) PL = cylinder head (planar) C = conical	Length in mm

Multiple light guides with glare protection

HC LC	- H	- D2	CS	/ R10XC10	- 2.54
	Orientation H = Horizontal V = vertical	Head diameter in mm	Head shape or head surface CS = countersunk head SP = raised head (spherical) PL = cylinder head (planar) C = conical 5X2 = 5 x 2 mm	Number of rows x columns	Pitch

Flexible light guides

HC LC	- F	- SP	- 5.2X2	- 150
	Flexible	Head shape CS = countersunk head SP = raised head (spherical) PL = cylinder head (planar) C = conical	Head x cable diameter in mm	Length in mm

Signal lights for housings

HC LCA	- RGB	12.5X3	- F
	LED color RGB WH = white RD = red YE = yellow GR = green	Lens x LED diameter in mm	Connection F = spade connector L = free conductor ends

2.2 Vertical light guides

Single light guides, rigid, passive,

Description			Type	Item No.	Pcs./Pkt.
Size	Number of displays	Length			
Raised head					
ø 4 mm	1 row x 1 column	45	HS LC-V-T-D4X5,2-45	1082300	1
ø 3.2 mm	1 row x 1 column	7	HS LC-D3,2SP-7	1474238	50
ø 3.2 mm	1 row x 1 column	45	HS LC-D3,2SP-45	1474355	50
ø 5 mm	1 row x 1 column	8.5	HS LC-D5SP-8,5	1474359	50
ø 5 mm	1 row x 1 column	45	HS LC-D5SP-45	1474361	50
ø 3.7 mm	1 row x 1 column	10.6	HS-LC-V-T-D2,1X3,7S-10,6	1346167	50
Countersunk head					
ø 3.2 mm	1 row x 1 column	7.5	HS LC-D3,2CS-7,5	1474366	50
ø 3.2 mm	1 row x 1 column	45	HS LC-D3,2CS-45	1474367	50
ø 5 mm	1 row x 1 column	8.5	HS LC-D5CS-8,5	1474368	50
ø 5 mm	1 row x 1 column	38.2	HS LC-D5CS-38,2	1549673	500
ø 5 mm	1 row x 1 column	45	HS LC-D5CS-45	1474370	50
Cylinder head					
ø 3.2 mm	1 row x 1 column	7	HS LC-D3,2PL-7	1474362	50
ø 3.2 mm	1 row x 1 column	45	HS LC-D3,2PL-45	1474363	50
ø 5 mm	1 row x 1 column	8.5	HS LC-D5PL-8,5	1474364	50
ø 5 mm	1 row x 1 column	45	HS LC-D5PL-45	1474365	50

Multiple light guides, rigid, passive

Description			Type	Item No.	Pcs./Pkt.
Size	Number of displays	Pitch			
Cylinder head					
ø 3 mm	2 rows x 1 column	5.08	HS LC-V-D3/ R2XC1-5,08-15	1531501	100
ø 3 mm	2 rows x 1 column	5.08	HS LC-V-D3/ R2xC1-5,08	2202311	200
ø 3 mm	3 rows x 1 column	5.08	HS LC-V-D3/ R3XC1-5,08-15	1531503	100
ø 3 mm	3 rows x 1 column	5.08	HS LC-V-D3/ R3xC1-5,08	2202312	200
ø 3 mm	3 rows x 1 column	5.08	HS LC-V-D3/ R3XC1-5,08-40,5	1521402	200
ø 3 mm	4 rows x 1 column	5.08	HS LC-V-D3/ R4XC1-5,08-15	1531504	100
ø 3 mm	4 rows x 1 column	5.08	HS LC-V-D3/ R4XC1-5,08	1531520	100
ø 3 mm	5 rows x 1 column	5.08	HS LC-V-D3/ R5XC1-5,08-15	1531509	100
ø 3 mm	5 rows x 1 column	5.08	HS LC-V-D3/ R5XC1-5,08	1531521	100
ø 3 mm	6 rows x 1 column	5.08	HS LC-V-D3/ R6XC1-5,08-15	1531517	100
ø 3 mm	6 rows x 1 column	5.08	HS LC-V-D3/ R6XC1-5,08	1531526	100
ø 3 mm	7 rows x 1 column	5.08	HS LC-V-D3/ R7XC1-5,08-15	1531518	100

2.3 Horizontal light guides

Single light guides, rigid, passive

Description		Type	Item No.	Pcs./Pkt.
Size	Number of displays			
Rectangular, straight				
5 x 2 mm	1 row x 1 column	HS LC-H-5x2/ R1xC1	2202314	100
Cylinder head				
ø 3 mm	1 row x 1 column	HS LC-H-D3/ R1xC1	2202313	100
Raised head				
ø 2 mm	1 row x 1 column	HS LC-H-D2SP/ R1xC1	1474388	50

Multiple light guides, rigid, passive

Description			Type	Item No.	Pcs./Pkt.
Size	Number of displays	Pitch			
Raised head					
ø 2 mm	1 row x 2 columns	2.54	HS LC-H-D2SP/ R1xC2	1474389	50
ø 2 mm	1 row x 3 columns	2.54	HS LC-H-D2SP/ R1xC3	1474390	50
ø 2 mm	1 row x 4 columns	2.54	HS LC-H-D2SP/ R1xC4	1474391	50
ø 2 mm	1 row x 6 columns	2.54	HS LC-H-D2SP/ R1xC6	1474392	50
ø 2 mm	1 row x 8 columns	2.54	HS LC-H-D2SP/ R1xC8	1474394	50
Cylinder head					
ø 3 mm	1 row x 2 columns	5.08	HS LC-H-D3PL/ R1xC2	1474372	50
ø 3 mm	1 row x 3 columns	5.08	HS LC-H-D3PL/ R1xC3	1474381	50
ø 3 mm	1 row x 4 columns	5.08	HS LC-H-D3PL/ R1xC4	1474382	50
ø 3 mm	1 row x 6 columns	5.08	HS LC-H-D3PL/ R1xC6	1474384	50
ø 3 mm	1 row x 8 columns	5.08	HS LC-H-D3PL/ R1xC8	1474386	50
ø 3 mm	2 rows x 1 column	5.08	HS LC-H-D3/ R2xC1-5,08	2202315	50

Multiple light guides, rigid, passive, with glare protection

Description				Type	Item No.	Pcs./Pkt.
C ¹	Size	Number of displays	Pitch			
Raised head, double-row						
	ø 2 mm	2 rows x 1 column	2.54	HS LC-H-D2/ R2xC1-2,54	2202316	100
✓	ø 2 mm	2 rows x 1 column	2.54	HS LC-H-D2C/ R2xC1-2,54	1036658	100
	ø 2 mm	2 rows x 2 columns	2.54	HS LC-H-D2/ R2xC2-2,54	2202317	100
✓	ø 2 mm	2 rows x 2 columns	2.54	HS LC-H-D2C/ R2xC2-2,54	1043044	100
	ø 2 mm	2 rows x 4 columns	2.54	HS LC-H-D2/ R2XC4-2,54	2202531	100
✓	ø 2 mm	2 rows x 4 columns	2.54	HS LC-H-D2C/ R2XC4-2,54	1036724	100
	ø 2 mm	2 rows x 5 columns	2.54	HS LC-H-D2/ R2xC5-2,54	2202318	100
✓	ø 2 mm	2 rows x 5 columns	2.54	HS LC-H-D2C/ R2xC5-2,54	1071310	100
	ø 2 mm	2 rows x 10 columns	2.54	HS LC-H-D2/ R2xC10-2,54	2202319	100
✓	ø 2 mm	2 rows x 10 columns	2.54	HS LC-H-D2C/ R2xC10-2,54	1071314	100
Raised head, triple-row						
	ø 3 mm	3 rows x 1 column	2.54	HS LC-H-D2/ R3XC1-2,54	1393207	100
	ø 3 mm	3 rows x 10 columns	2.54	HS LC-H-D2/ R3XC10-2,54	1104374	100
Raised head, quadruple-row						
	ø 2 mm	4 rows x 2 columns	2.54	HS LC-H-D2/ R4xC2-2,54	2202320	100
✓	ø 2 mm	4 rows x 2 columns	2.54	HS LC-H-D2C/ R4xC2-2,54	1071316	100
	ø 2 mm	4 rows x 4 columns	2.54	HS LC-H-D2/ R4XC4-2,54	2202532	100
✓	ø 2 mm	4 rows x 4 columns	2.54	HS LC-H-D2C/ R4XC4-2,54	1036727	100
	ø 2 mm	4 rows x 5 columns	2.54	HS LC-H-D2/ R4xC5-2,54	2202321	100
✓	ø 2 mm	4 rows x 5 columns	2.54	HS LC-H-D2C/ R4xC5-2,54	1071318	100
	ø 2 mm	4 rows x 9 columns	2.54	HS LC-H-D2/ R4xC9-2,54	2202322	100
✓	ø 2 mm	4 rows x 9 columns	2.54	HS LC-H-D2C/ R4xC9-2,54	1071321	100
	ø 2 mm	4 rows x 10 columns	2.54	HS LC-H-D2/ R4xC10-2,54	2202323	100
✓	ø 2 mm	4 rows x 10 columns	2.54	HS LC-H-D2C/ R4xC10-2,54	1071329	100
Cylinder head						
	ø 3 mm	2 rows x 2 columns	5.08	HS LC-H-D3PL/ R2xC2-5,08	1474395	100
	ø 3 mm	2 rows x 3 columns	5.08	HS LC-H-D3PL/ R2xC3-5,08	1474396	50
	ø 3 mm	2 rows x 4 columns	5.08	HS LC-H-D3PL/ R2xC4-5,08	1474397	50
	ø 3 mm	2 rows x 5 columns	5.08	HS LC-H-D3PL/ R2xC5-5,08	1474399	50

¹ C = The tops of the insertion pegs are conical to facilitate installation.

2.4 Flexible light guides

Single light guides, flexible, passive

Description			Type	Item No.	Pcs./Pkt.
Size	Number of displays	Length			
Round, planar					
ø 6 mm	1 row x 1 column	150	HS LC-F-T-6X3-150	1082301	1
Raised head					
ø 5.2 mm	1 row x 1 column	50	HS LC-F-SP-5,2X2-50	1474419	1
ø 5.2 mm	1 row x 1 column	80	HS LC-F-SP-5,2X2-80	1474448	1
ø 5.2 mm	1 row x 1 column	150	HS LC-F-SP-5,2X2-150	1474449	1
Countersunk head					
ø 5.2 mm	1 row x 1 column	50	HS LC-F-CS-5,2X2-50	1474451	1
ø 5.2 mm	1 row x 1 column	80	HS LC-F-CS-5,2X2-80	1474452	1
ø 5.2 mm	1 row x 1 column	150	HS LC-F-CS-5,2X2-150	1474453	1
Cylinder head					
ø 5.2 mm	1 row x 1 column	50	HS LC-F-PL-5,2X2-50	1474459	1
ø 5.2 mm	1 row x 1 column	80	HS LC-F-PL-5,2X2-80	1474461	1
ø 5.2 mm	1 row x 1 column	150	HS LC-F-PL-5,2X2-150	1474463	1

2.5 Signal lights for housings

Signal lights, active

Description			Type	Item No.	Pcs./Pkt.
Size	Number of displays	Connection			
With free conductor end					
ø 5 mm	1 row x 1 column	Conductor	HS LCA-RGB-10X5-L	1082299	1
ø 5 mm	1 row x 1 column	Conductor	HS LCA-WH 10X5-L	1474401	1
ø 3 mm	1 row x 1 column	Conductor	HS LCA-RGB 10X3-L	1474405	1
ø 3 mm	1 row x 1 column	Conductor	HS LCA-WH 10X3-L	1474406	1
ø 5 mm	1 row x 1 column	Conductor	HS LCA-RD 12,5X5-L	1474410	1
ø 5 mm	1 row x 1 column	Conductor	HS LCA-YE 12,5X5-L	1474411	1
ø 5 mm	1 row x 1 column	Conductor	HS LCA-GR 12,5X5-L	1474412	1
With spade connector					
Size	Number of displays	Connection			
ø 5 mm	1 row x 1 column	Connector	HS LCA-RD 12,5X5-F	1474407	1
ø 5 mm	1 row x 1 column	Connector	HS LCA-YE 12,5X5-F	1474408	1
ø 5 mm	1 row x 1 column	Connector	HS LCA-GR 12,5X5-F	1474409	1

3 Vertical light guides

3.1 Single light guides with raised head (HS LC-V-T-D4...)

This light guide system with a vertical design has a spherical illumination surface. Once the light guide has been pressed or glued into a housing, it achieves IP68 degree of protection.

The light guides are particularly suitable for use with the ECS and HC-ALU housing ranges from Phoenix Contact.

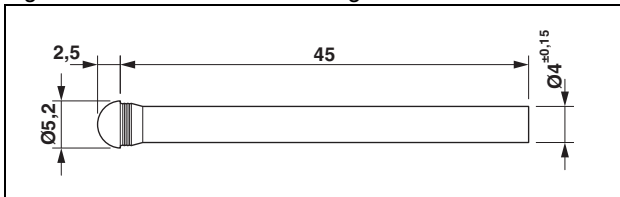


Description				Type	Item No.
Design	Size	Number	Pitch		
Raised head	ø 5.2 mm	1 row x 1 column	–	HS LC-V-T-D4X5,2-45	1082300

General data

Material	PC clear UL94
Ambient temperature	-20°C ... +50°C
ESD protection	<4 kV

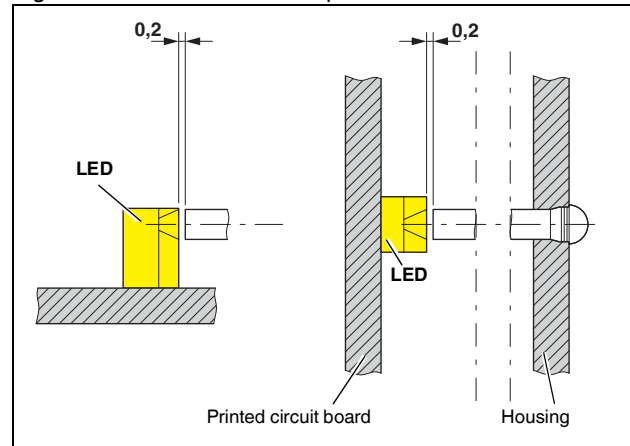
Figure 1 Dimensional drawing of HS LC-V-T



We recommend using the TOPLED design, an SMD LED with integrated reflector from OSRAM.

LS T670
LSG T670
LY T676

Figure 2 Installation example



Minimum thickness of the front plate: 1.5 mm

After drilling, ream the assembly drill hole to $\text{Ø } 4.6 \text{ mm}^{\text{H7}}$.
Dry-install the light guide by pressing it in vertically.

As an alternative, you can glue in the light guide, e.g., using LOCTITE 460. To accelerate curing, you can use LOCTITE SF 7455 as an activator.

3.2 Single light guides with raised head (HS LC-D...)

This light guide system with a vertical design has a spherical illumination surface.

It is installed by pressing it into the housing drill hole. The light guides can be used universally in the Phoenix Contact housing ranges.

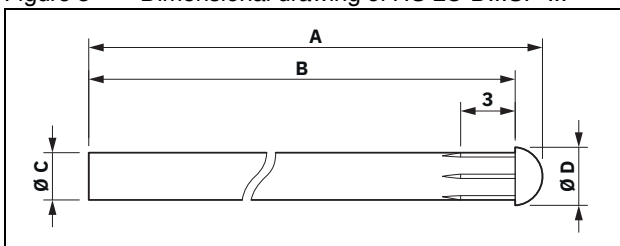


Description				Type	Item No.
Design	Size	Number	Length		
Raised head	ø 3.2 mm	1 row x 1 column	7	HS LC-D3,2SP-7	1474238
Raised head	ø 3.2 mm	1 row x 1 column	45	HS LC-D3,2SP-45	1474355
Raised head	ø 5 mm	1 row x 1 column	8.5	HS LC-D5SP-8,5	1474359
Raised head	ø 5 mm	1 row x 1 column	45	HS LC-D5SP-45	1474361

General data

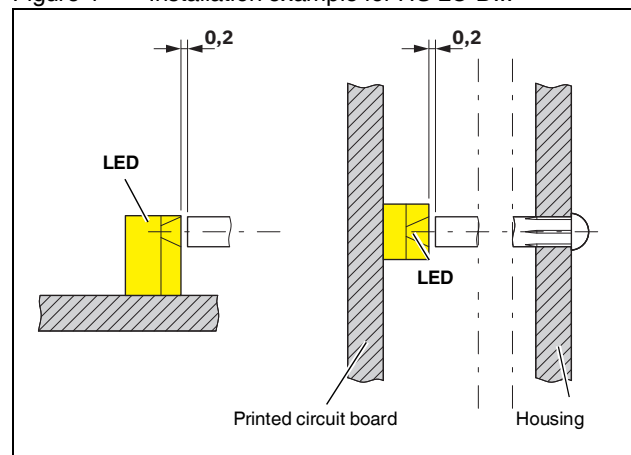
Material of the light guide	PC clear UL94
Ambient temperature	-40°C ... +85°C
ESD protection	<4 kV

Figure 3 Dimensional drawing of HS LC-D...SP-...



Dimensions for	A	B	C	D	Drill hole Ø
1474238	8.5	7	2.6	3.2	2.8
1474355	46.5	45	2.6	3.2	2.8
1474359	10.9	8.5	4	5	4.2
1474361	47.4	45	4	5	4.2

Figure 4 Installation example for HS LC-D...



We recommend using the TOPLED design, an SMD LED with integrated reflector from OSRAM.

LS T670 LSG T670 LY T676

3.3 Single light guides with raised head (HS LC-V-T-D2,1...)

This light guide system with a vertical design has a spherical illumination surface.

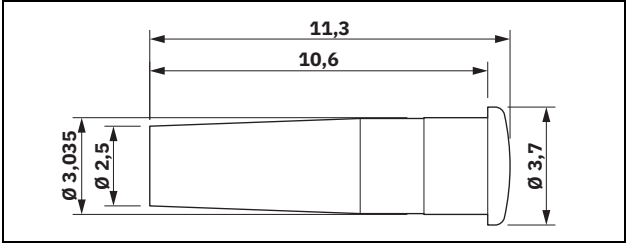
It is installed by pressing it into the housing drill hole. The light guides can be used universally in the Phoenix Contact housing ranges.



Description				Type	Item No.
Design	Size	Number	Length		
Raised head	ø 3.7 mm	1 row x 1 column	10.6	HS-LC-V-T-D2,1X3,7S-10,6	1346167

General data	
Material of the light guide	PC clear UL94
Ambient temperature	-40°C ... +85°C
ESD protection	<4 kV

Figure 5 Dimensional drawing



Drill hole $\varnothing 3.04^{+0.06}$ mm, for installation in a housing wall of 1 mm

3.4 Single light guides with countersunk head

This light guide system with a vertical design has a countersunk illumination surface.

It is installed by pressing it into the housing drill hole. The light guides can be used universally in the Phoenix Contact housing ranges.



Description				Type	Item No.
Design	Size	Number	Length		
Countersunk head	ø 3.2 mm	1 row x 1 column	7.5	HS LC-D3,2CS-7,5	1474366
Countersunk head	ø 3.2 mm	1 row x 1 column	45	HS LC-D3,2CS-45	1474367
Countersunk head	ø 5 mm	1 row x 1 column	8.5	HS LC-D5CS-8,5	1474368
Countersunk head	ø 5 mm	1 row x 1 column	38.2	HS LC-D5CS-38,2	1549673
Countersunk head	ø 5 mm	1 row x 1 column	45	HS LC-D5CS-45	1474370

General data

Material of the light guide

PC clear UL94

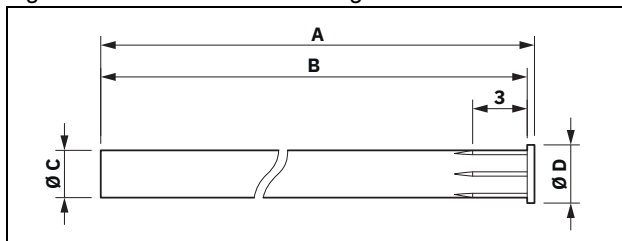
Ambient temperature

-40°C ... +85°C

ESD protection

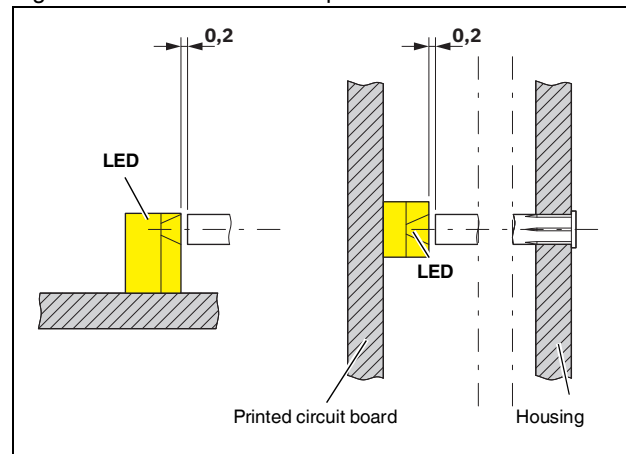
<4 kV

Figure 6 Dimensional drawing of HS LC-D...CS...



Dimensions for	A	B	C	D	Drill hole Ø
1474366	7.9	7.5	3.2	2.6	2.8
1474367	45.4	45	3.2	2.6	2.8
1474368	8.9	8.5	5	4	4.2
1549673	38.6	38.2	5	4	4.2
1474370	45.4	45	5	4	4.2

Figure 7 Installation example for HS LC-D...CS...



We recommend using the TOPLED design, an SMD LED with integrated reflector from OSRAM.

LS T670

LSG T670

LY T676

3.5 Single light guides with cylinder head

This light guide system with a vertical design has a planar illumination surface.

It is installed by pressing it into the housing drill hole. The light guides can be used universally in the Phoenix Contact housing ranges.



Description				Type	Item No.
Design	Size	Number	Length		
Cylinder head	ø 3.2 mm	1 row x 1 column	7	HS LC-D3,2PL-7	1474362
Cylinder head	ø 3.2 mm	1 row x 1 column	45	HS LC-D3,2PL-45	1474363
Cylinder head	ø 5 mm	1 row x 1 column	8.5	HS LC-D5PL-8,5	1474364
Cylinder head	ø 5 mm	1 row x 1 column	45	HS LC-D5PL-45	1474365

General data

Material of the light guide

PC clear UL94

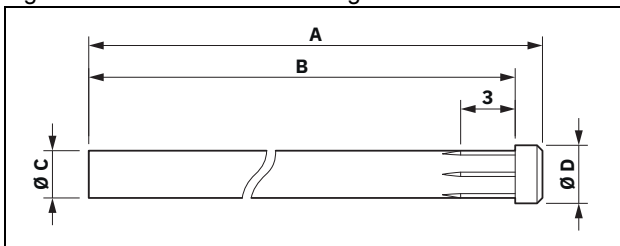
Ambient temperature

-40°C ... +85°C

ESD protection

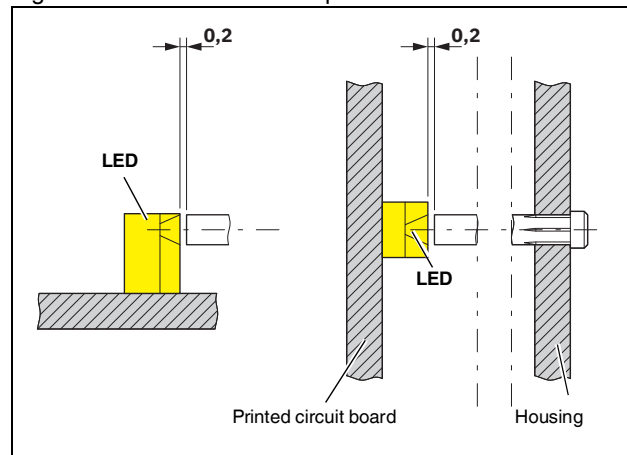
<4 kV

Figure 8 Dimensional drawing of HS LC-D...SP...



Dimensions for	A	B	C	D	Drill hole Ø
1474362	8.5	7	2.6	3.2	2.8
1474363	46.5	45	2.6	3.2	2.8
1474364	10.9	8.5	4	5	4.2
1474365	47.4	45	4	5	4.2

Figure 9 Installation example for HS LC-D...



We recommend using the TOPLED design, an SMD LED with integrated reflector from OSRAM.

LS T670 LSG T670 LY T676

3.6 Multiple light guides with cylinder head

This light guide system with a vertical design has a spherical illumination surface. Fixing pins secure the light guide on the printed circuit board.

The light guides are suitable for use with the BC housing range from Phoenix Contact.

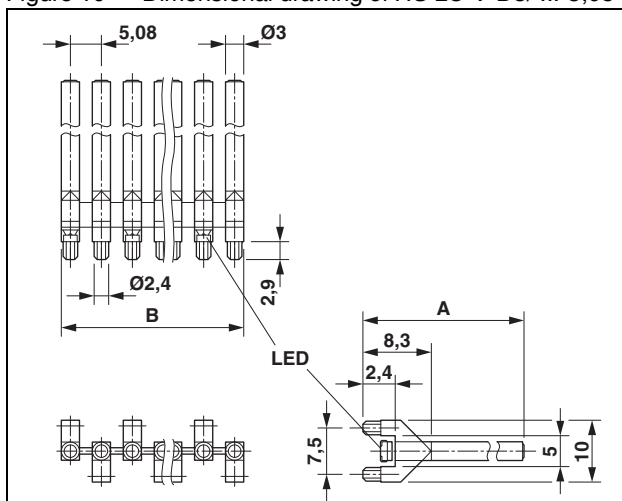


Description				Type	Item No.
Design	Size	Number	Pitch		
Cylinder head	ø 3 mm	2 rows x 1 column	5.08	HS LC-V-D3/ R2XC1-5,08-15	1531501
Cylinder head	ø 3 mm	2 rows x 1 column	5.08	HS LC-V-D3/ R2xC1-5,08	2202311
Cylinder head	ø 3 mm	3 rows x 1 column	5.08	HS LC-V-D3/ R3XC1-5,08-15	1531503
Cylinder head	ø 3 mm	3 rows x 1 column	5.08	HS LC-V-D3/ R3xC1-5,08	2202312
Cylinder head	ø 3 mm	3 rows x 1 column	5.08	HS LC-V-D3/ R3XC1-5,08-40,5	1521402
Cylinder head	ø 3 mm	4 rows x 1 column	5.08	HS LC-V-D3/ R4XC1-5,08-15	1531504
Cylinder head	ø 3 mm	4 rows x 1 column	5.08	HS LC-V-D3/ R4XC1-5,08	1531520
Cylinder head	ø 3 mm	5 rows x 1 column	5.08	HS LC-V-D3/ R5XC1-5,08-15	1531509
Cylinder head	ø 3 mm	5 rows x 1 column	5.08	HS LC-V-D3/ R5XC1-5,08	1531521
Cylinder head	ø 3 mm	6 rows x 1 column	5.08	HS LC-V-D3/ R6XC1-5,08-15	1531517
Cylinder head	ø 3 mm	6 rows x 1 column	5.08	HS LC-V-D3/ R6XC1-5,08	1531526
Cylinder head	ø 3 mm	7 rows x 1 column	5.08	HS LC-V-D3/ R7XC1-5,08-15	1531518

General data

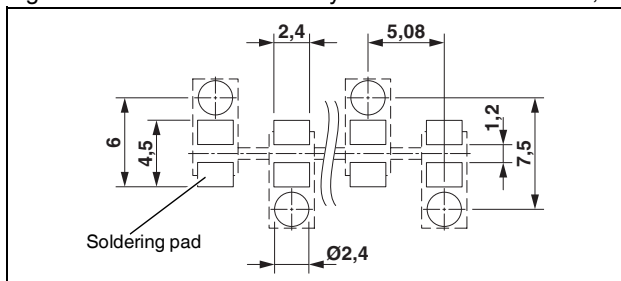
Material of the light guide	PC clear UL94
Ambient temperature	-40°C ... +85°C
ESD protection	<12 kV

Figure 10 Dimensional drawing of HS LC-V-D3/ ...-5,08



Dimensions for	Length	A	B
1531501	15 mm	17.9 mm	8.08 mm
2202311	32 mm	34.9 mm	8.08 mm
1531503	15 mm	17.9 mm	13.16 mm
2202312	32 mm	34.9 mm	13.16 mm
1521402	42.5 mm	43.4 mm	13.16 mm
1531504	15 mm	17.9 mm	18.24 mm
1531520	32 mm	34.9 mm	18.24 mm
1531509	15 mm	17.9 mm	23.32 mm
1531521	32 mm	34.9 mm	23.32 mm
1531517	15 mm	17.9 mm	28.4 mm
1531526	32 mm	34.9 mm	28.4 mm
1531518	15 mm	17.9 mm	33.48 mm

Figure 11 Recommended layout for HS LC-V-D3/...-5,08



We recommend using the TOPLED design, an SMD LED with integrated reflector from OSRAM.

LS T670	LS T679	LS T676	LT T673
LY T670	LY T679	LO T676	LW T673
LG T670	LG T679	LY T676	
LSG T670			

4 Horizontal light guides

4.1 Single light guides, rectangular or with cylinder head

The light is guided to the front panel parallel to the printed circuit board. Two fixing pins secure the light guide on the printed circuit board.

The light guides are suitable for use with the following housing ranges from Phoenix Contact: ME, ME MAX, ME-IO, ME-PLC, BC 17,8, EH, and ICS.



Description			Type	Item No.
Design	Size	Number		
Rectangular	5 x 2 mm	1 row x 1 column	HS LC-H-5x2/ R1xC1	2202314
Cylinder head	ø 3 mm	1 row x 1 column	HS LC-H-D3/ R1xC1	2202313

General data	
Material of the light guide	PMMA clear UL94
Ambient temperature	-40°C ... +85°C
ESD protection	<12 kV

Figure 12 Dimensional drawing of HS LC-H-D3/ R1xC1

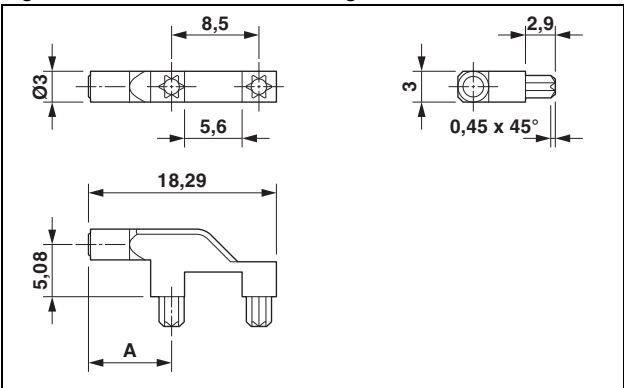
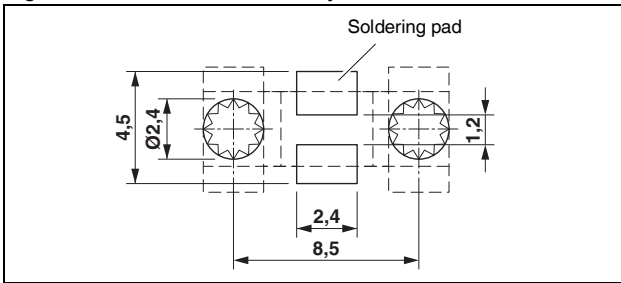


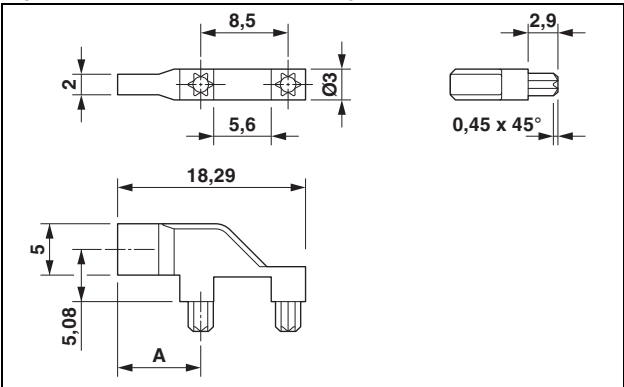
Figure 14 Recommended layout for HS LC-H-D3/...



We recommend using the TOPLED design, an SMD LED with integrated reflector from OSRAM.

LS T670	LS T679	LS T676	LT T673
LY T670	LY T679	LO T676	LW T673
LG T670	LG T679	LY T676	
LSG T670			

Figure 13 Dimensional drawing of HS LC-H-5x2/ R1xC1

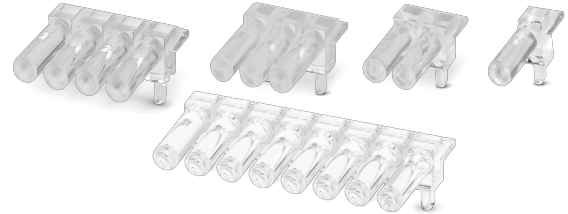


Dimensions for	A
2202313 + 2202314	8.1 mm

4.2 Single and multiple light guides with raised head, single row

The light is guided to the front panel parallel to the printed circuit board. Fixing pins secure this light guide on the printed circuit board.

The light guides are suitable for use with the following housing ranges from Phoenix Contact: ME, ME MAX, ME-IO, and ICS.



Description				Type	Item No.
Design	Size	Number	Pitch		
Raised head	ø 2 mm	1 row x 1 column	–	HS LC-H-D2SP/ R1xC1	1474388
	ø 2 mm	1 row x 2 columns	2.54	HS LC-H-D2SP/ R1xC2	1474389
	ø 2 mm	1 row x 3 columns	2.54	HS LC-H-D2SP/ R1xC3	1474390
	ø 2 mm	1 row x 4 columns	2.54	HS LC-H-D2SP/ R1xC4	1474391
	ø 2 mm	1 row x 6 columns	2.54	HS LC-H-D2SP/ R1xC6	1474392
	ø 2 mm	1 row x 8 columns	2.54	HS LC-H-D2SP/ R1xC8	1474394

General data	
Material of the light guide	PC clear UL94
Ambient temperature	-40°C ... +85°C
ESD protection	<8 kV

Figure 15 Dimensional drawing of HS LC-H-D2SP/ R1xC...

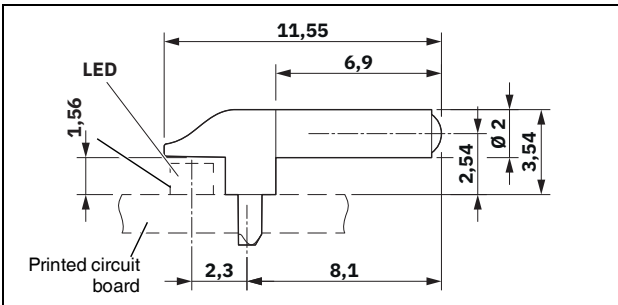


Figure 17 Dimensional drawing of HS LC-H-D2SP/ R1xC6

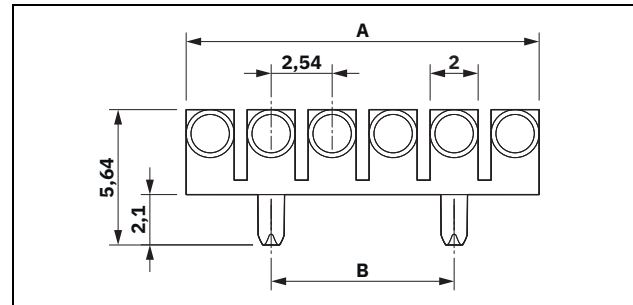
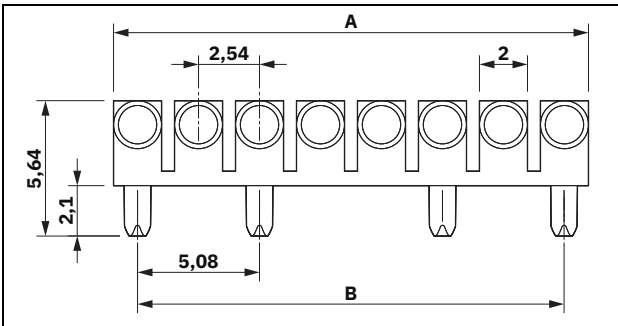
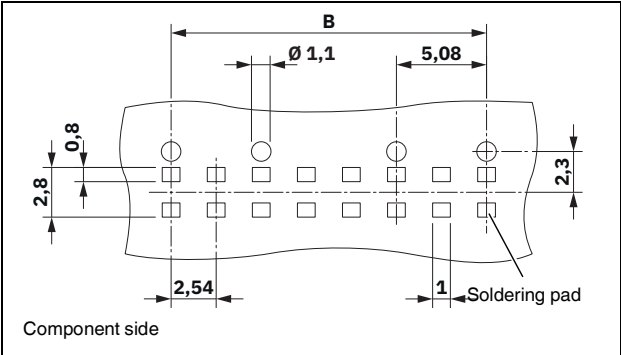


Figure 16 Dimensional drawing of HS LC-H-D2SP/ R1xC8



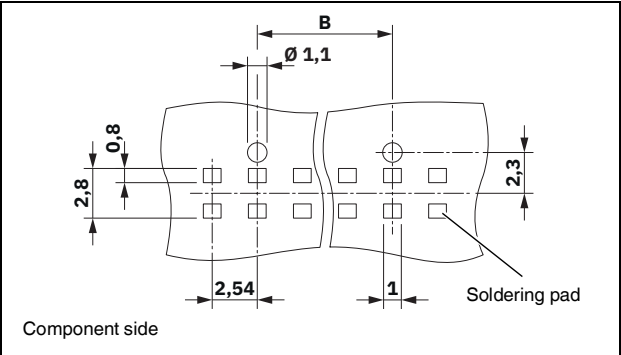
Dimensions for	Light guides	A	B
1474388		2.0	–
1474389	2	4.54	2.54
1474390	3	7.08	5.08
1474391	4	9.62	7.62
1474392	6	14.7	7.62
1474394	8	19.78	17.78

Figure 18 Recommended layout for
HS LC-H-D2SP/ R1xC8



Dimensions for	Light guides	B
1474394	8	17.78

Figure 19 Recommended layout for
HS LC-H-D2SP/ R1xC2 to C6



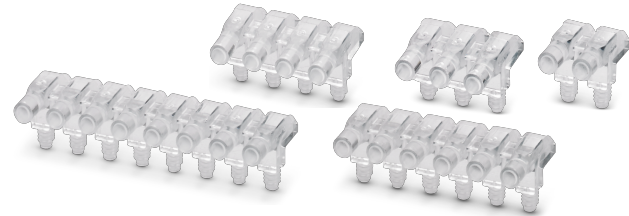
Dimensions for	Light guides	B
1474389	2	2.54
1474390	3	5.08
1474391	4	7.62
1474392	6	7.62

We recommend using the Mini-TOPLED design, an SMD LED from OSRAM with white SMT housing.
L0 M676

4.3 Multiple light guides with cylinder head (HS LC-H-D3PL...)

The light is guided to the front panel in the form of a $\varnothing 3$ mm light guide, parallel to the PCB. Fixing pins secure the light guide on the printed circuit board.

The light guides are suitable for use with the following housing ranges from Phoenix Contact: ME, ME MAX, ME-IO, EH, and ICS.



Description				Type	Item No.
Design	Size	Number	Pitch		
Cylinder head	$\varnothing 3$ mm	1 row x 2 columns	5.08	HS LC-H-D3PL/ R1xC2	1474372
	$\varnothing 3$ mm	1 row x 3 columns	5.08	HS LC-H-D3PL/ R1xC3	1474381
	$\varnothing 3$ mm	1 row x 4 columns	5.08	HS LC-H-D3PL/ R1xC4	1474382
	$\varnothing 3$ mm	1 row x 6 columns	5.08	HS LC-H-D3PL/ R1xC6	1474384
	$\varnothing 3$ mm	1 row x 8 columns	5.08	HS LC-H-D3PL/ R1xC8	1474386

General data

Material of the light guide	PMMA clear UL94
Ambient temperature	-40°C ... +85°C
ESD protection	<12 kV

Figure 20 Dimensional drawing of HS LC-H-D3PL/R1xC...

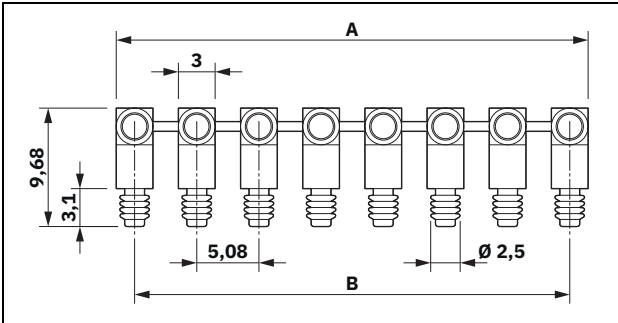
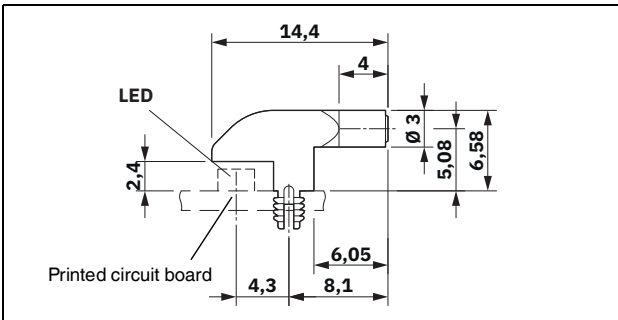
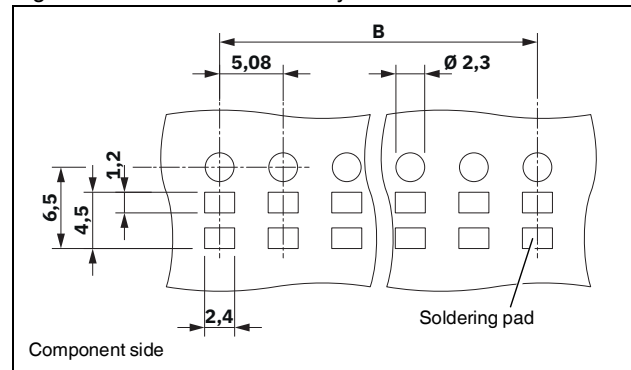


Figure 21 Dimensional drawing of HS LC-H-D3PL/R1xC...



Dimensions for	Light guides	A	B
1474372	2	8.08	5.08
1474381	3	13.16	10.16
1474382	4	18.24	15.24
1474384	6	28.4	25.4
1474386	8	38.56	35.56

Figure 22 Recommended layout for HS LC-H-D3/...



We recommend using the TOPLED design, an SMD LED with integrated reflector from OSRAM.

LS T670 LSG T670 LY T676

4.4 Multiple light guides with cylinder head (HS LC-H-D3/ R2...)

The double display has a spherical illumination surface with Ø 3 mm diameter. Fixing pins secure the light guide on the printed circuit board.

The light guides are suitable for use with the following housing ranges from Phoenix Contact: ME, ME MAX, ME-IO, ME-PLC, BC 17,8, EH, and ICS.

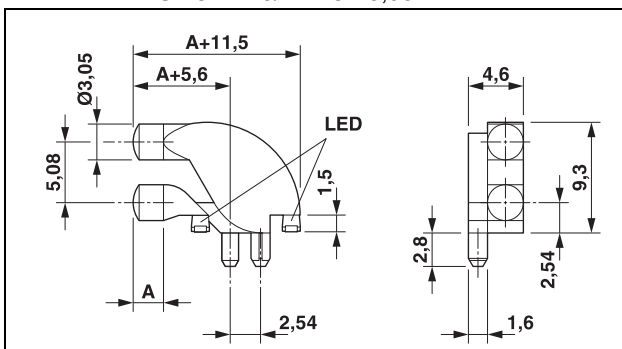


Description				Type	Item No.
Design	Size	Number	Pitch		
Cylinder head	ø 3 mm	2 rows x 1 column	5.08	HS LC-H-D3/ R2xC1-5,08	2202315

General data

Material of the light guide	PC clear UL94
Ambient temperature	-40°C ... +85°C
ESD protection	6.5 kV

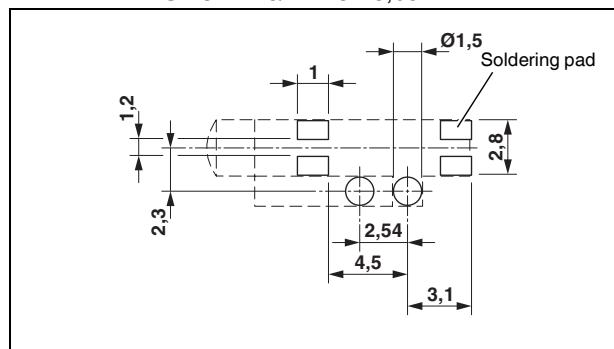
Figure 23 Dimensional drawing of
HS LC-H-D3/ R2xC1-5,08



Dimensions for A

2202315 2.5 mm

Figure 24 Recommended layout for
HS LC-H-D3/ R2xC1-5.08



We recommend using the Mini-TOLED design, an SMD LED from OSRAM with white SMT housing.

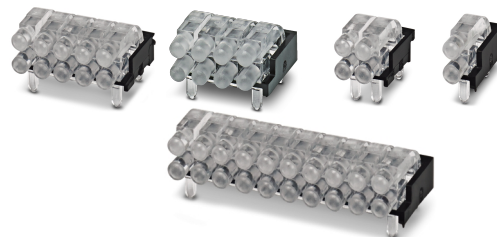
LS M670	LS M676	LY M676
LG M670	LO M676	LT M673

5 Horizontal multiple light guides with glare protection

5.1 Multiple light guides with raised head, double-row

These light guides with double rows are available with up to 20 possible illumination surfaces. Fixing pins secure the light guides on the printed circuit board. The system features a lens to prevent glare. This also makes mixed colors possible.

The light guides are suitable for use with the following housing ranges from Phoenix Contact: ME, ME MAX, ME-IO, ME-PLC, BC 17,8, EH, and ICS.



Description					Type	Item No.
Design	C ¹	Size	Number	Pitch		
Raised head		ø 2 mm	2 rows x 1 column	2.54	HS LC-H-D2/ R2xC1-2,54	2202316
Raised head	✓	ø 2 mm	2 rows x 1 column	2.54	HS LC-H-D2C/ R2xC1-2,54	1036358
Raised head		ø 2 mm	2 rows x 2 columns	2.54	HS LC-H-D2/ R2xC2-2,54	2202317
Raised head	✓	ø 2 mm	2 rows x 2 columns	2.54	HS LC-H-D2C/ R2xC2-2,54	1043044
Raised head		ø 2 mm	2 rows x 4 columns	2.54	HS LC-H-D2/ R2XC4-2,54	2202531
Raised head	✓	ø 2 mm	2 rows x 4 columns	2.54	HS LC-H-D2C/ R2XC4-2,54	1036724
Raised head		ø 2 mm	2 rows x 5 columns	2.54	HS LC-H-D2/ R2xC5-2,54	2202318
Raised head	✓	ø 2 mm	2 rows x 5 columns	2.54	HS LC-H-D2C/ R2xC5-2,54	1071310
Raised head		ø 2 mm	2 rows x 10 columns	2.54	HS LC-H-D2/ R2xC10-2,54	2202319
Raised head	✓	ø 2 mm	2 rows x 10 columns	2.54	HS LC-H-D2C/ R2xC10-2,54	1071314

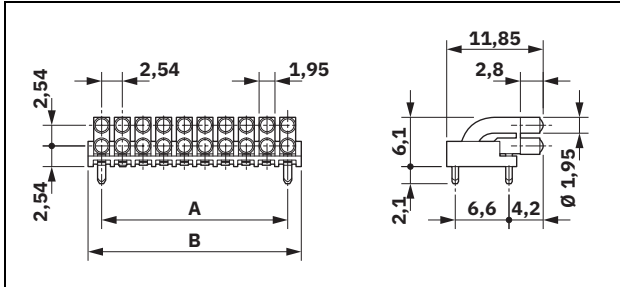
¹ C = The tops of the insertion pegs are conical to facilitate installation, e.g., in ME-IO housings.

General data

Material	Light guide: PC clear UL94 Lens: PC black UL94
Ambient temperature	-40°C ... +85°C
ESD protection	<8 kV

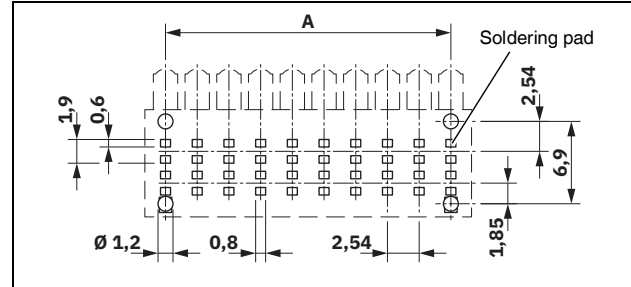
Standard insertion pegs HS LC-H-D2/R2...

Figure 25 Dimensional drawing of HS LC-H-D2/R2...-2,54



Dimensions for	A	B
2202316	–	3.16 mm
2202317	2.54 mm	5.70 mm
2202531	7.62 mm	10.78 mm
2202318	10.16 mm	13.32 mm
2202319	22.86 mm	26.20 mm

Figure 26 Recommended layout for HS LC-H-D2/R2...-2,54

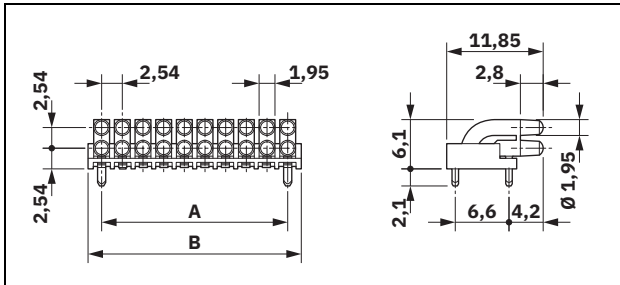


The light guide block is designed for use with CHIPLEDs, design 0603, from OSRAM.

LG Q971 LS Q976

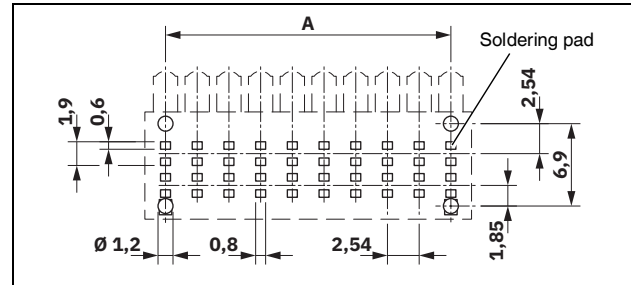
Conical insertion pegs HS LC-H-D2C/...

Figure 27 Dimensional drawing of HS LC-H-D2C/R2...-2,54



Dimensions for	A	B
1036358	–	3.16 mm
1043044	2.54 mm	5.70 mm
1036724	7.62 mm	10.78 mm
1071310	10.16 mm	13.32 mm
1071314	22.86 mm	26.20 mm

Figure 28 Recommended layout for HS LC-H-D2C/R2...-2,54



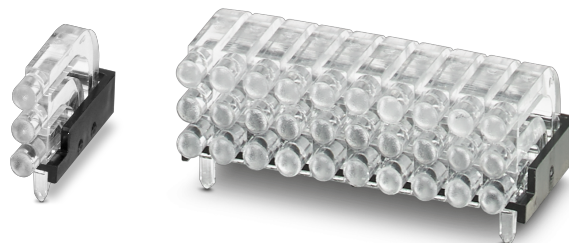
The light guide block is designed for use with CHIPLEDs, design 0603, from OSRAM.

LG Q971 LS Q976

5.2 Multiple light guides with raised head, triple-row

These light guides with triple rows are available with up to 30 possible illumination surfaces. Fixing pins secure the light guides on the printed circuit board. The system features a lens to prevent glare. This also makes mixed colors possible.

The light guides are suitable for use with the following housing ranges from Phoenix Contact: ME, ME MAX, ME-IO, ME-PLC, BC 17.8, EH, and ICS.



Description				Type	Item No.
Design	Size	Number	Pitch		
Raised head	ø 3 mm	3 rows x 1 column	2.54	HS LC-H-D2/ R3XC1-2,54	1393207
Raised head	ø 3 mm	3 rows x 10 columns	2.54	HS LC-H-D2/ R3XC10-2.54	1104374

General data

Material

Light guide: PC clear UL94

Lens: PC black UL94

Ambient temperature

-40°C ... +85°C

ESD protection

≤ 8 kV

Figure 29 Dimensional drawing of
HS LC-H-D2/ R3XC1-2,54

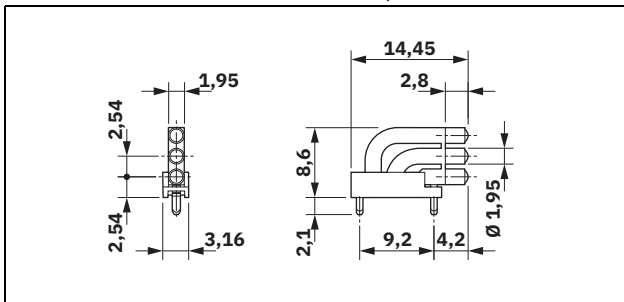


Figure 31 Recommended layout for
HS LC-H-2/ R3XC10-2,54

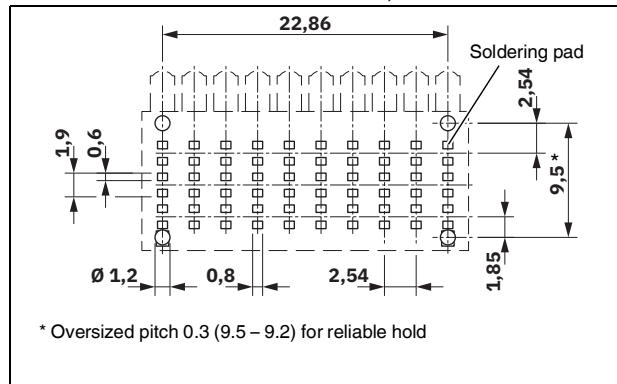
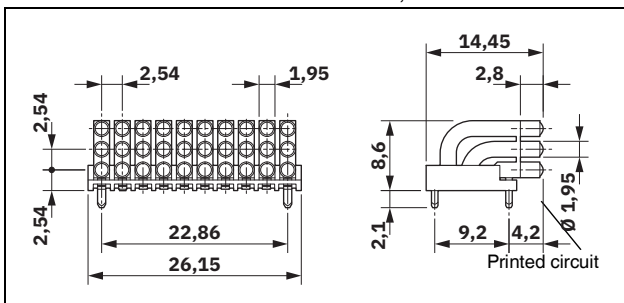


Figure 30 Dimensional drawing of
HS LC-H-D2/ R3XC10-2,54



We recommend using the TOPLED design, an SMD LED with integrated reflector from OSRAM.

LG Q971 LS Q976

5.3 Multiple light guides with raised head, quadruple-row

These light guides with quadruple rows are available with up to 40 possible illumination surfaces. Fixing pins secure the light guides on the printed circuit board. The system features a lens to prevent glare. This also makes mixed colors possible.

The light guides are suitable for use with the following housing ranges from Phoenix Contact: ME, ME MAX, ME-IO, ME-PLC, BC 17,8, EH, and ICS.



Description					Type	Item No.
Design	C ¹	Size	Number	Pitch		
Raised head		ø 2 mm	4 rows x 2 columns	2.54	HS LC-H-D2/ R4xC2-2,54	2202320
Raised head	✓	ø 2 mm	4 rows x 2 columns	2.54	HS LC-H-D2C/ R4xC2-2,54	1071316
Raised head		ø 2 mm	4 rows x 4 columns	2.54	HS LC-H-D2/ R4XC4-2,54	2202532
Raised head	✓	ø 2 mm	4 rows x 4 columns	2.54	HS LC-H-D2C/ R4XC4-2,54	1036727
Raised head		ø 2 mm	4 rows x 5 columns	2.54	HS LC-H-D2/ R4xC5-2,54	2202321
Raised head	✓	ø 2 mm	4 rows x 5 columns	2.54	HS LC-H-D2C/ R4xC5-2,54	1071318
Raised head		ø 2 mm	4 rows x 9 columns	2.54	HS LC-H-D2/ R4xC9-2,54	2202322
Raised head	✓	ø 2 mm	4 rows x 9 columns	2.54	HS LC-H-D2C/ R4XC9-2,54	1071321
Raised head		ø 2 mm	4 rows x 10 columns	2.54	HS LC-H-D2/ R4xC10-2,54	2202323
Raised head	✓	ø 2 mm	4 rows x 10 columns	2.54	HS LC-H-D2C/ R4xC10-2,54	1071329

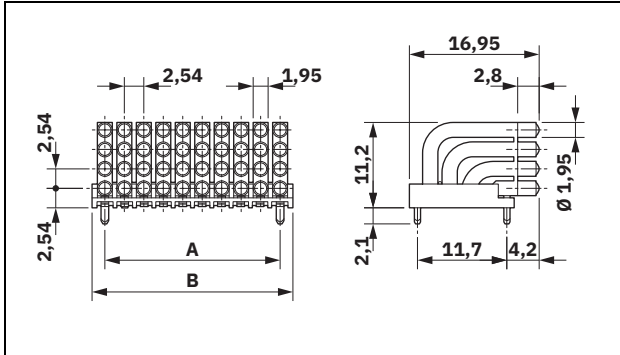
¹ C = The tops of the insertion pegs are conical to facilitate installation, e.g., in ME-IO housings.

General data

Material	Light guide: PC clear UL94 Lens: PC black UL94
Ambient temperature	-40°C ... +85°C
ESD protection	<8 kV

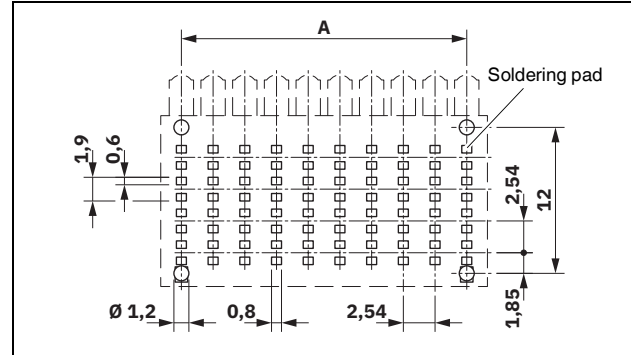
Standard insertion pegs HS LC-H-D2/R4...

Figure 32 Dimensional drawing of HS LC-H-D2/R4...-2,54



Dimensions for	A	B
2202320	2.54 mm	5.70 mm
2202532	7.62 mm	10.78 mm
2202321	10.16 mm	13.32 mm
2202322	20.32 mm	23.48 mm
2202323	22.86 mm	26.15 mm

Figure 33 Recommended layout for HS LC-H-D2/R4...-2,54

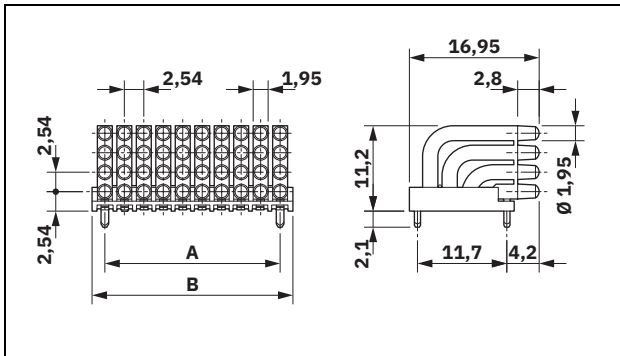


The light guide block is designed for use with CHIPLEDs, design 0603, from OSRAM.

LG Q971 LS Q976

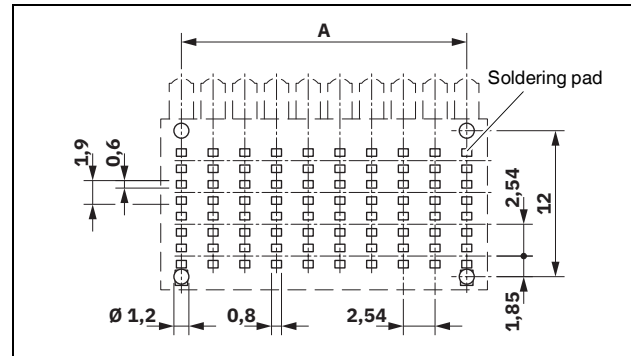
Conical insertion pegs HS LC-H-D2C/R4...

Figure 34 Dimensional drawing of HS LC-H-D2C/R4...-2,54



Dimensions for	A	B
1071316	2.54 mm	5.70 mm
1036727	7.62 mm	10.78 mm
1071318	10.16 mm	13.32 mm
1071321	20.32 mm	23.48 mm
1071329	22.86 mm	26.15 mm

Figure 35 Recommended layout for HS LC-H-D2C/R4...-2,54



The light guide block is designed for use with CHIPLEDs, design 0603, from OSRAM.

LG Q971 LS Q976

5.4 Multiple light guides with cylinder head

The light is guided to the front panel in the form of a $\varnothing 3$ mm light guide, parallel to the PCB. The system features a lens to prevent glare. This also makes mixed colors possible. Fixing pins secure the light guide on the printed circuit board.

The light guides are suitable for use with the following housing ranges from Phoenix Contact: ME, ME MAX, ME-IO, ME-PLC, BC 17,8, and EH.

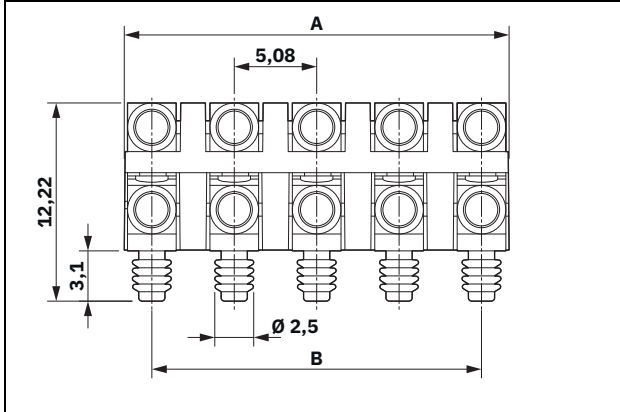


Description				Type	Item No.
Design	Size	Number	Pitch		
Cylinder head	$\varnothing 3$ mm	2 rows x 2 columns	5.08	HS LC-H-D3PL/ R2xC2-5,08	1474395
Cylinder head	$\varnothing 3$ mm	2 rows x 3 columns	5.08	HS LC-H-D3PL/ R2xC3-5,08	1474396
Cylinder head	$\varnothing 3$ mm	2 rows x 4 columns	5.08	HS LC-H-D3PL/ R2xC4-5,08	1474397
Cylinder head	$\varnothing 3$ mm	2 rows x 5 columns	5.08	HS LC-H-D3PL/ R2xC5-5,08	1474399

General data

Material of the light guide	PC clear UL94
Material of lens	PC gray UL94
Ambient temperature	-40°C ... +85°C
ESD protection	<8 kV

Figure 36 Dimensional drawing of HS LC-H-D3PL/ R2... 5,08



Dimensions for	Light guides	A	B
1474395	4	8.46	5.08
1474396	6	13.54	10.16
1474397	8	18.64	15.24
1474399	10	23.72	20.32

Figure 37 Dimensional drawing of HS LC-H-D3PL/ R2... 5,08

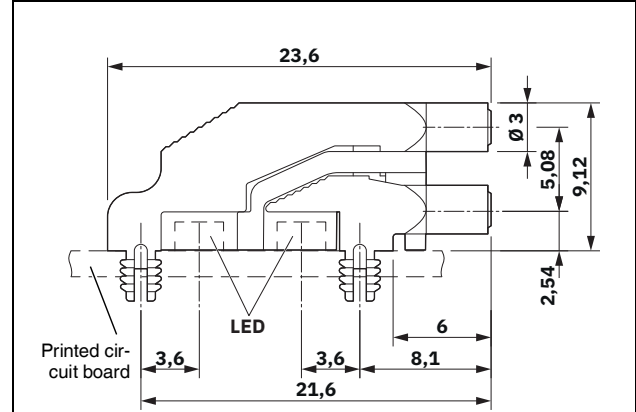
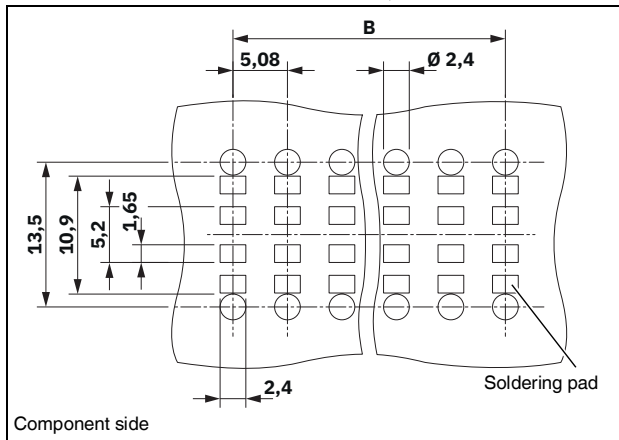


Figure 38 Recommended layout for
HS LC-H-D3PL/ R2... 5,08



We recommend using the TOPLED design, an SMD LED with integrated reflector from OSRAM.

LS T670 LSG T670 LY T676

6 Flexible light guides

6.1 Flexible light guide, round

This three-part, flexible light guide system shows the light of an LED. The lens is pressed or glued into the front plate of a housing.

The light guides are particularly suitable for use with the ECS and HC-ALU housing ranges from Phoenix Contact.



Description				Type	Item No.
Design	Size	Number	Pitch		
Round, planar	ø 6 mm	1 row x 1 column	–	HS LC-F-T-6X3-150	1082301

General data

Material

Housing: PC black UL94

Light guide: PUR

Lens: PC clear UL94

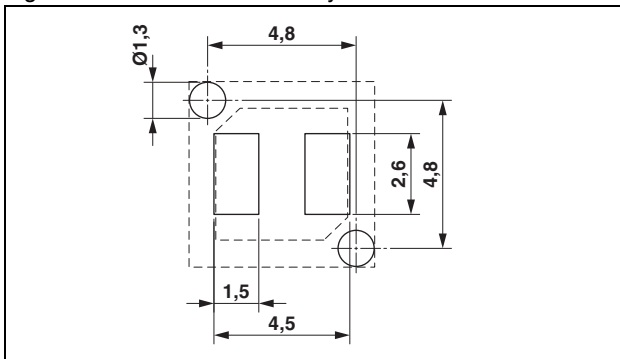
Ambient temperature

-40°C ... +85°C

ESD protection

<12 kV

Figure 39 Recommended layout for HS LC-F-T



Maximum LED height: 2.1 mm

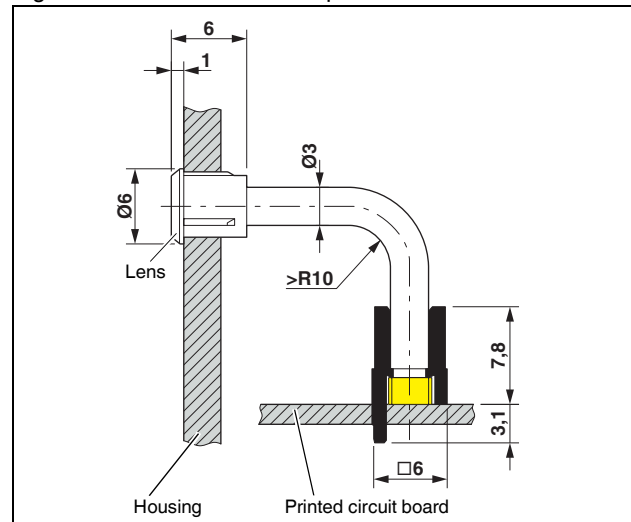
We recommend using the TOPLED design, an SMD LED with integrated reflector from OSRAM.

LS T670

LSG T670

LY T676

Figure 40 Installation example



Dry-install the lens by pressing it vertically into the Ø 5.5 mm assembly drill hole.

As an alternative, you can glue in the light guide, e.g., using LOCTITE 460. To accelerate curing, you can use LOCTITE SF 7455 as an activator.

6.2 Flexible light guides with raised, countersunk, or cylindrical head

Two fixing pins secure the housings of the light guides on the PCB. The light guides are IP68 tested and offer a bending radius of $R = 20$.

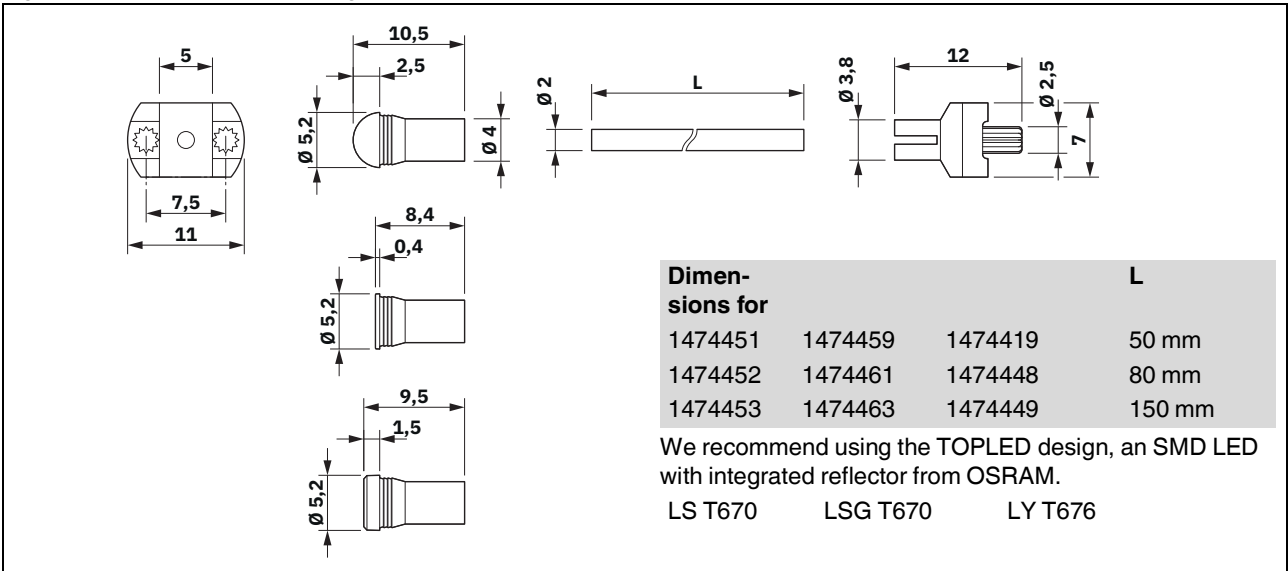
The light guides are particularly suitable for use with the ECS and UCS housing ranges from Phoenix Contact.



Description				Type	Item No.
Design	Size	Number	Length		
Raised head	ø 5.2 mm	1 row x 1 column	50 mm	HS LC-F-SP-5,2X2-50	1474419
	ø 5.2 mm	1 row x 1 column	80 mm	HS LC-F-SP-5,2X2-80	1474448
	ø 5.2 mm	1 row x 1 column	150 mm	HS LC-F-SP-5,2X2-150	1474449
Countersunk head	ø 5.2 mm	1 row x 1 column	50 mm	HS LC-F-CS-5,2X2-50	1474451
	ø 5.2 mm	1 row x 1 column	80 mm	HS LC-F-CS-5,2X2-80	1474452
	ø 5.2 mm	1 row x 1 column	150 mm	HS LC-F-CS-5,2X2-150	1474453
Cylinder head	ø 5.2 mm	1 row x 1 column	50 mm	HS LC-F-PL-5,2X2-50	1474459
	ø 5.2 mm	1 row x 1 column	80 mm	HS LC-F-PL-5,2X2-80	1474461
	ø 5.2 mm	1 row x 1 column	150 mm	HS LC-F-PL-5,2X2-150	1474463

General data	
Material	Housing: PC black UL94 Light guide: PMMA Lens: PC clear UL94
Ambient temperature	-20°C ... +50°C
ESD protection	<12 kV

Figure 41 Dimensional drawing of HS LC-F...



Maximum LED height: 2.1 mm

Minimum thickness of the front plate: 1.0 mm

Figure 42 PCB layout for HS LC-F...

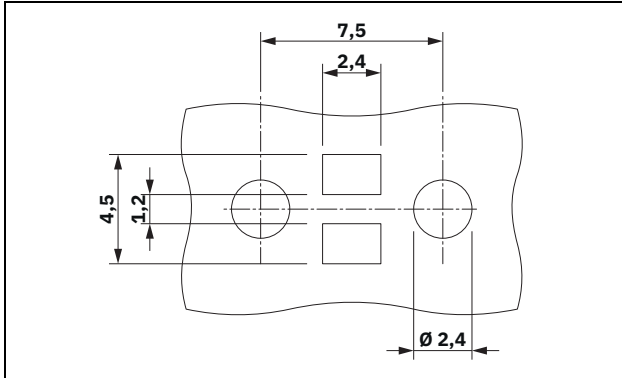
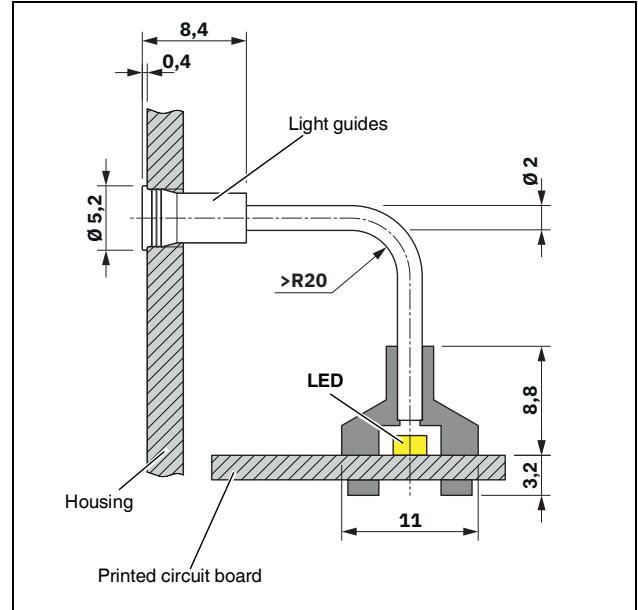


Figure 43 Installation example for HS LC-F...



Housing drill hole Ø 4.6 mm^{H7}

7 Signal lights for housings

7.1 LED display with free conductor end (RGB and white)

This LED display has a spherical illumination surface. Once the LED display has been pressed or glued into the housing, it achieves IP68 degree of protection.

The signal lights are particularly suitable for use with the ECS and HC-ALU housing ranges from Phoenix Contact.



Description	Size	Number	Color	Type	Item No.
Design					
Raised head	ø 5 mm	1 row x 1 column	RGB	HS LCA-RGB-10X5-L	1082299
	ø 5 mm	1 row x 1 column	White	HS LCA-WH 10X5-L	1474401
	ø 3 mm	1 row x 1 column	RGB	HS LCA-RGB 10X3-L	1474405
	ø 3 mm	1 row x 1 column	White	HS LCA-WH 10X3-L	1474406

General data

Material Housing: PC black UL94

LED display: PC UL94

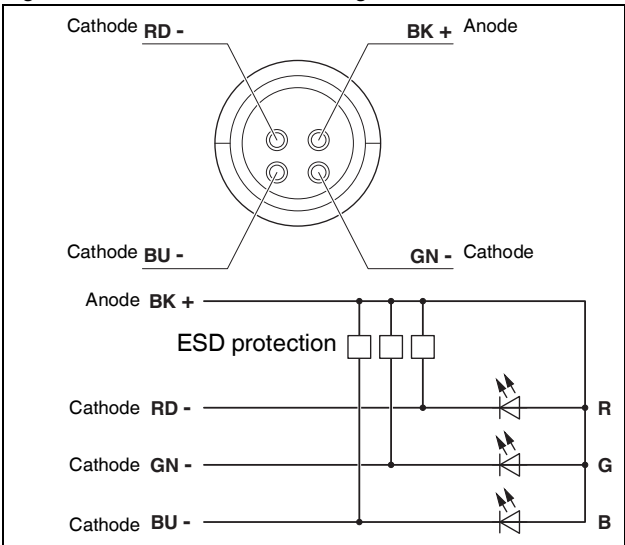
Ambient temperature

-20°C ... +80°C

ESD protection

<12 kV

Figure 44 LED connection assignment for HS LCA

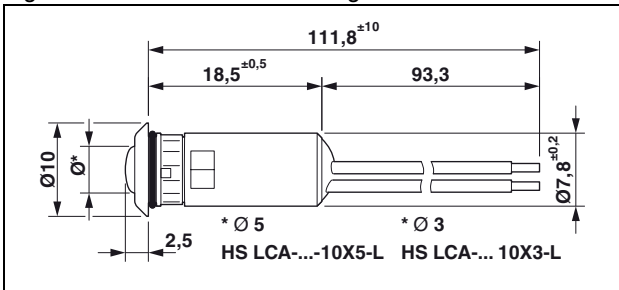


We recommend using connector PTSM 0,5/4-PL-2,5 WH, 1709460 from Phoenix Contact.

Minimum thickness of the front plate: 1.5 mm

		Wavelength λ [nm] dominant, at $I = 20$ mA	Forward voltage $T = 25^\circ\text{C}$, $I = 20$ mA	
			Typical	Maximum
R	Red	624	2.0	2.4
G	Green	525	3.5	3.8
B	Blue	470	3.5	3.8

Figure 45 Dimensional drawing of HS LCA



After drilling, ream the assembly drill hole to $\text{Ø } 8 \text{ mm}^{\text{H7}}$. Dry-install the LED display by pressing it in vertically.

As an alternative, you can glue in the LED display, e.g., using LOCTITE 460. To accelerate curing, you can use LOCTITE SF 7455 as an activator.

7.2 LED display with free conductor end (green, red, yellow)

This LED display with a vertical design has a spherical illumination surface. Once the LED display has been pressed or glued into the housing, it achieves IP40 degree of protection.

The signal lights are particularly suitable for use with the ECS and HC-ALU housing ranges from Phoenix Contact.



Description				Type	Item No.
Design	Size	Number	Color		
Cylinder head	ø 5 mm	1 row x 1 column	Green	HS LCA-GR 12,5X5-L	1474412
	ø 5 mm	1 row x 1 column	Red	HS LCA-RD 12,5X5-L	1474410
	ø 5 mm	1 row x 1 column	Yellow	HS LCA-YE 12,5X5-L	1474411

General data	
Material	Housing: PC white UL94 LED display: PC UL94
Ambient temperature	-20°C ... +80°C

Figure 46 Dimensional drawing of HS LCA-...-12,5x5-L

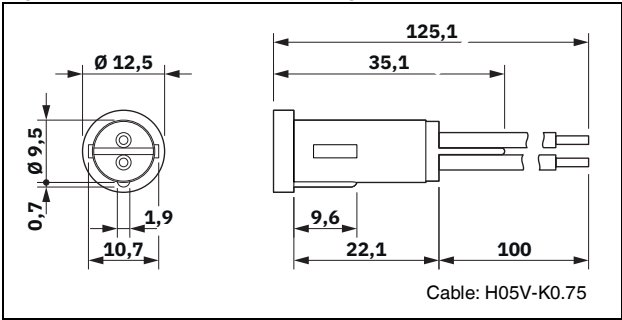
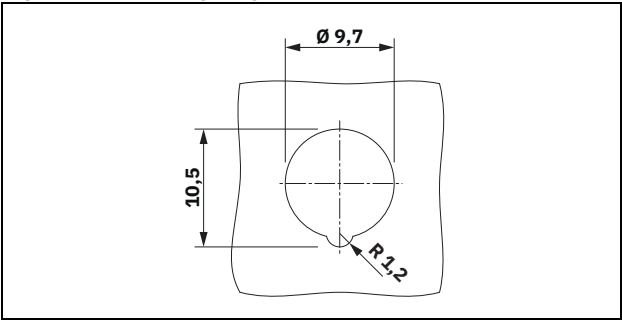


Figure 47 Drilling diagram for HS LCA-...-12,5x5...



7.3 LED display with spade connector

This LED display with a vertical design has a spherical illumination surface. Once the LED display has been pressed or glued into the front plate, it achieves IP40 degree of protection.

The signal lights are particularly suitable for use with the ECS and HC-ALU housing ranges from Phoenix Contact.



Description				Type	Item No.
Orientation	Size	Number	Color		
Vertical	ø 5 mm	1 row x 1 column	Green	HS LCA-GR 12,5X5-F	1474409
	ø 5 mm	1 row x 1 column	Red	HS LCA-RD 12,5X5-F	1474407
	ø 5 mm	1 row x 1 column	Yellow	HS LCA-YE 12,5X5-F	1474408

General data	
Material	Housing: PC white UL94 LED display: PC UL94
Ambient temperature	-20°C ... +80°C

Figure 48 Dimensional drawing of HS LCA-...-12,5x5-F

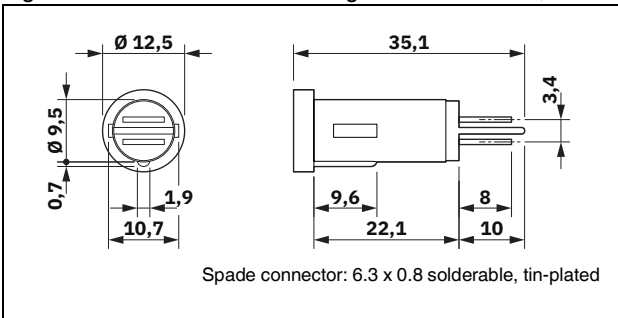
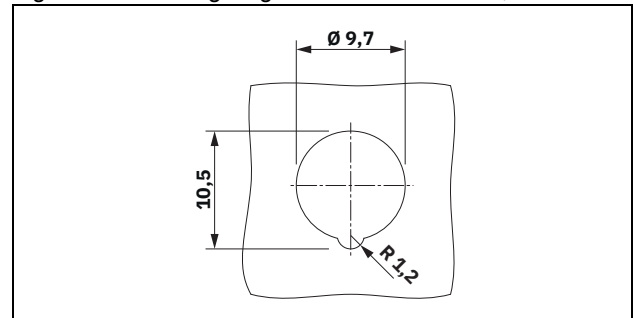


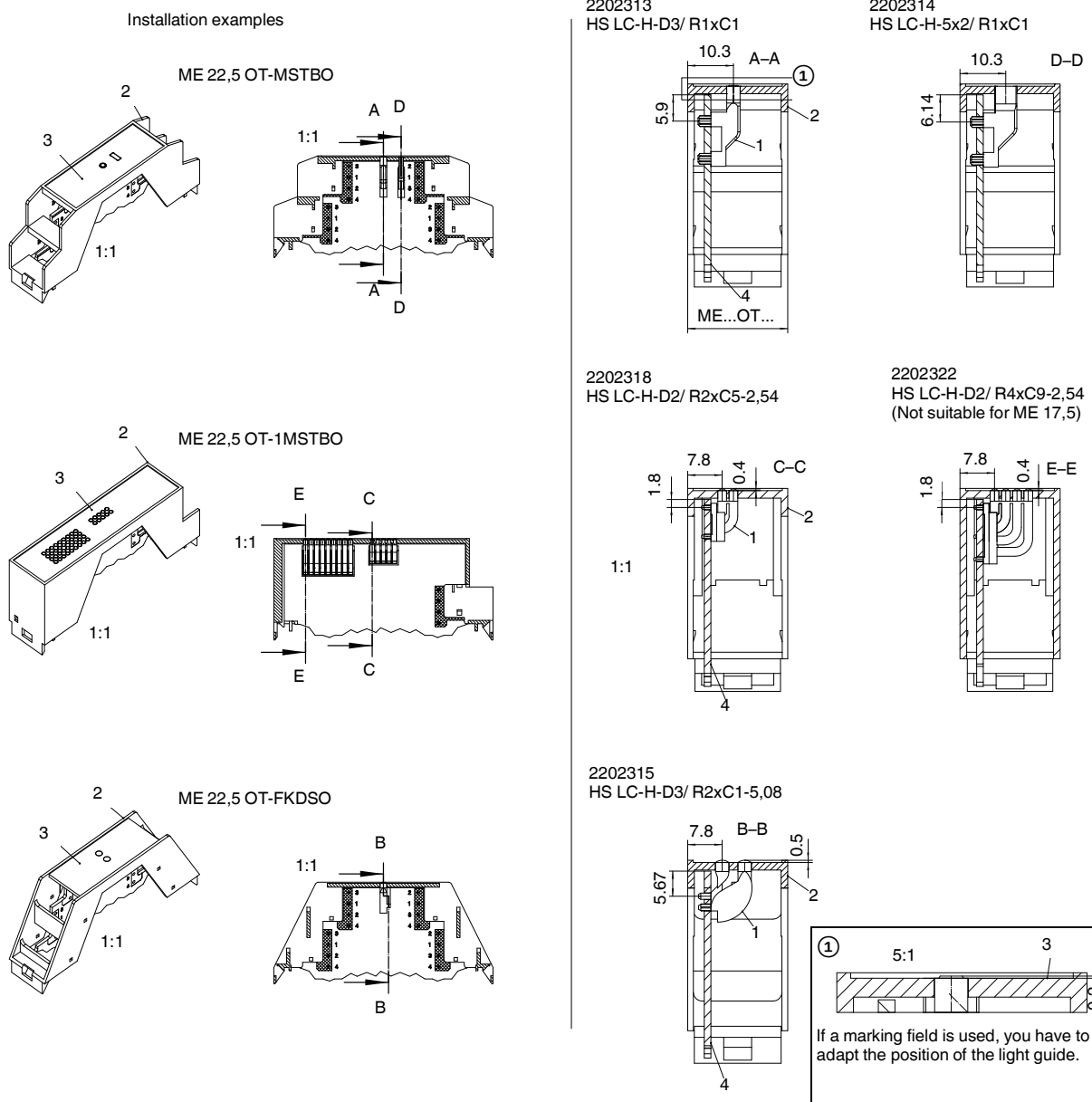
Figure 49 Drilling diagram for HS LCA-...-12,5x5...



8 Positioning light guides in housings

8.1 ME housing range

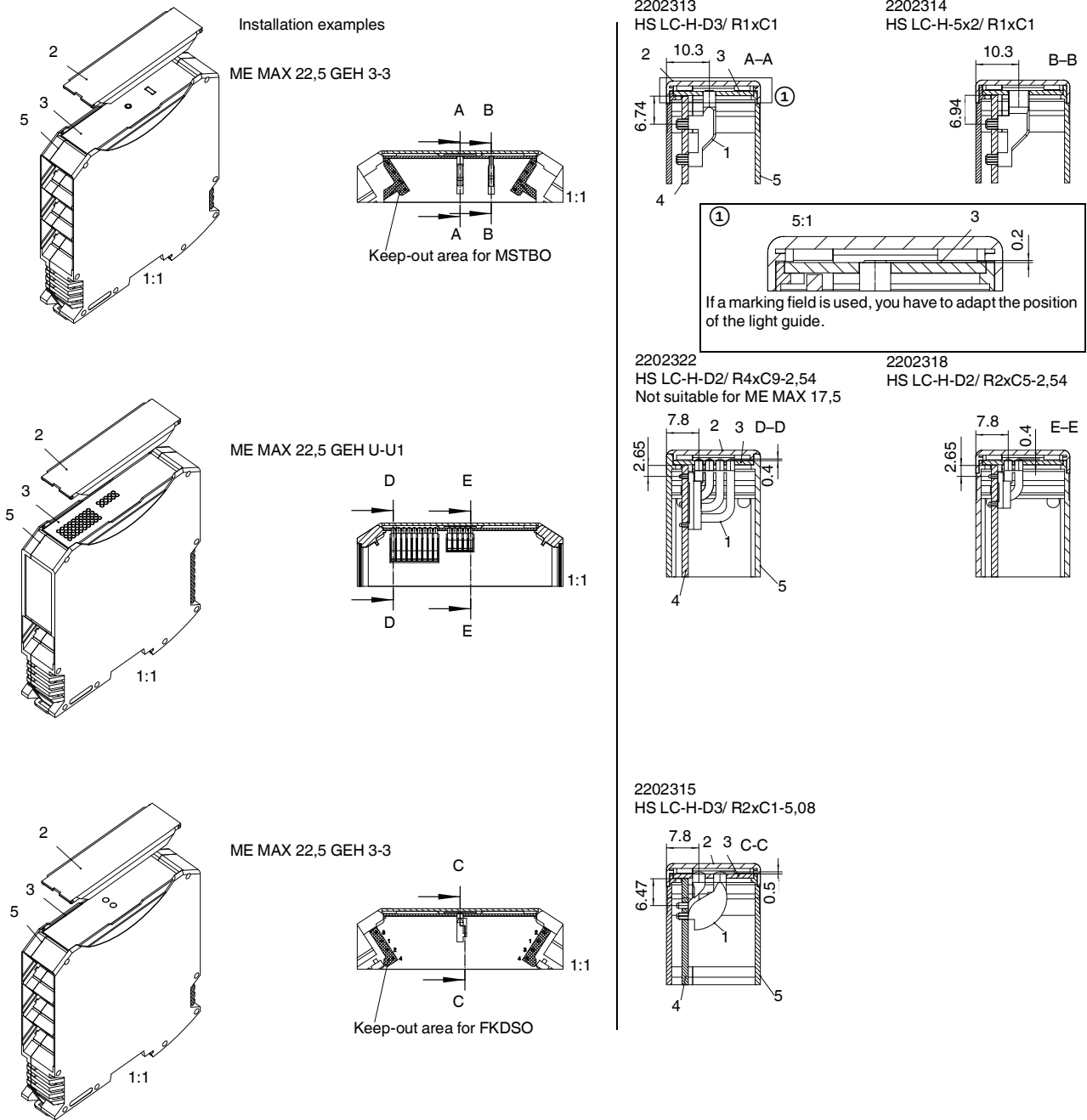
Figure 50 ME 17,5 OT, ME 22,5 OT, ME 35 OT, ME 45 OT, ME 67,5 OT, ME 90 OT



- 1 Light guides
- 2 ME ... OT upper housing part
- 3 Control panel
- 4 Printed circuit board

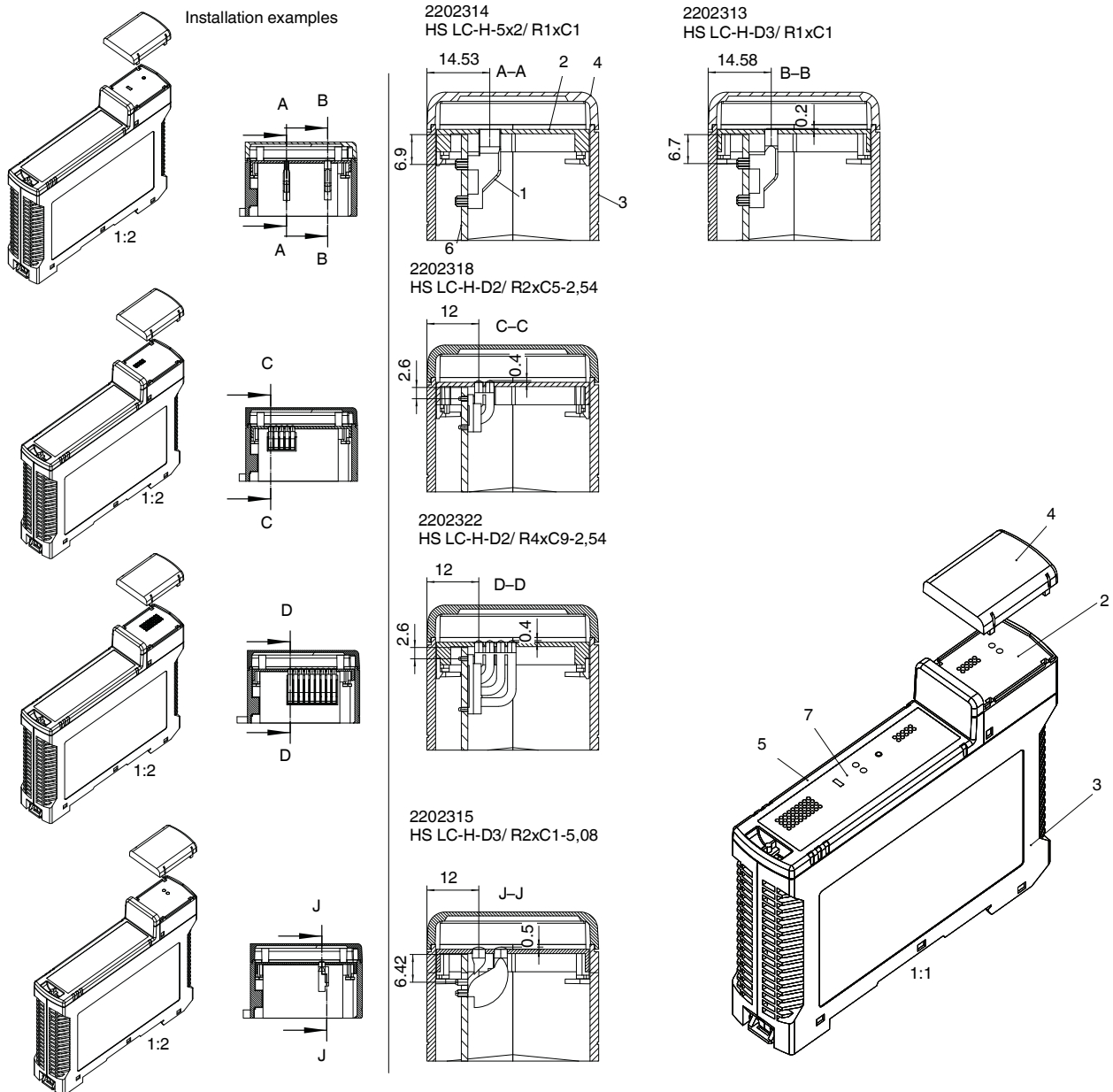
8.2 ME MAX housing range

Figure 51 ME MAX 17,5; ME MAX 22,5; ME MAX 35; ME MAX 45; ME MAX 67,5; ME MAX 90



8.3 ME PLC housing range

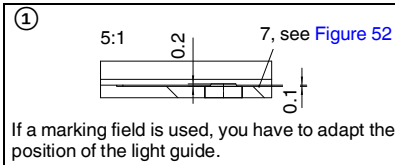
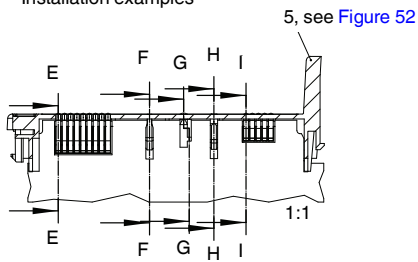
Figure 52 ME PLC (part 1)



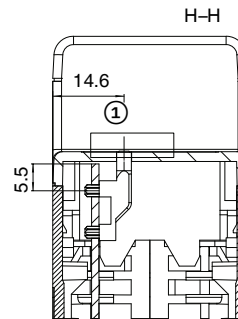
- 1 Light guides
- 2 Insertion plate, part of the housing cover
- 3 ME PLC 40 B BUS lower housing part
- 4 ME PLC 40 CS TRANS housing cover
- 5 ME PLC 40 CL housing cover
- 6 Printed circuit board
- 7 Control panel

Figure 53 ME PLC (part 2)

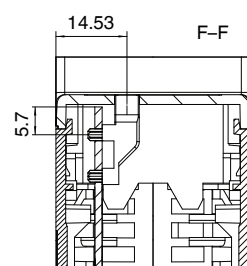
Installation examples



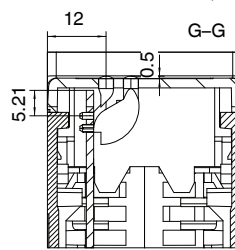
2202313
HS LC-H-D3/ R1xC1



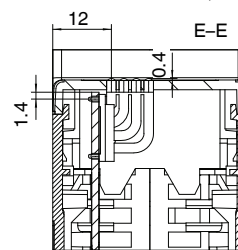
2202314
HS LC-H-5x2/ R1xC1



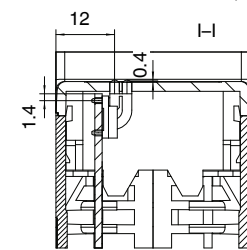
2202315
HS LC-H-D3/ R2xC1-5,08



2202322
HS LC-H-D2/ R4xC9-2,54



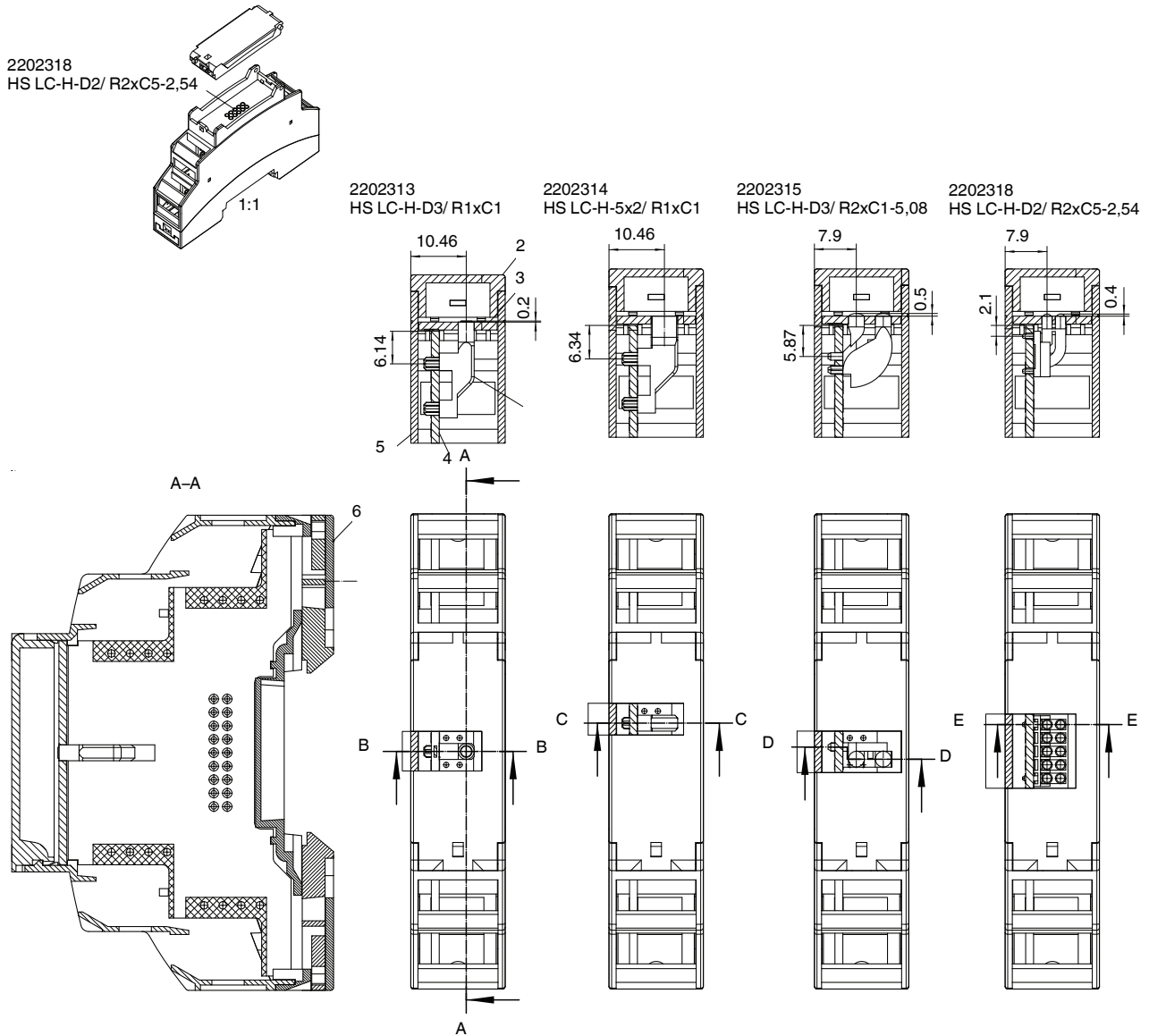
2202318
HS LC-H-D2/ R2xC5-2,54



8.4 BC 17,8 housing range

Figure 54 BC 17,8

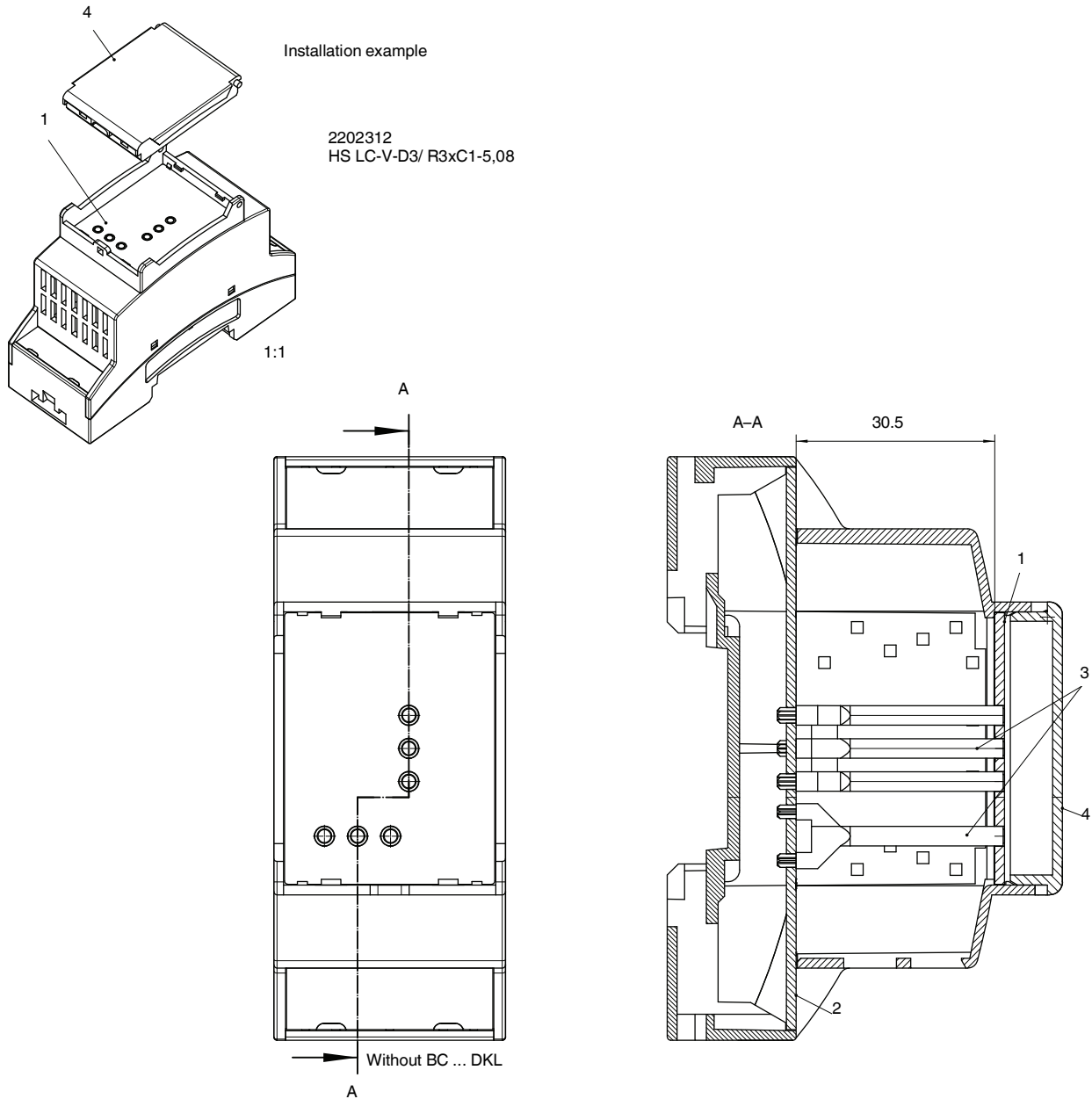
Installation example



- 1 Light guides
- 2 BC 17,8 DKL S TRANS housing cover
- 3 Insertion plate, part of the housing cover
- 4 Printed circuit board
- 5 BC 17,8 OT U22/BC 17,8 OT U11 upper housing part
- 6 BC 17,8 UT HBUS lower housing part

8.5 BC housing range as of an overall width of 35.6 mm

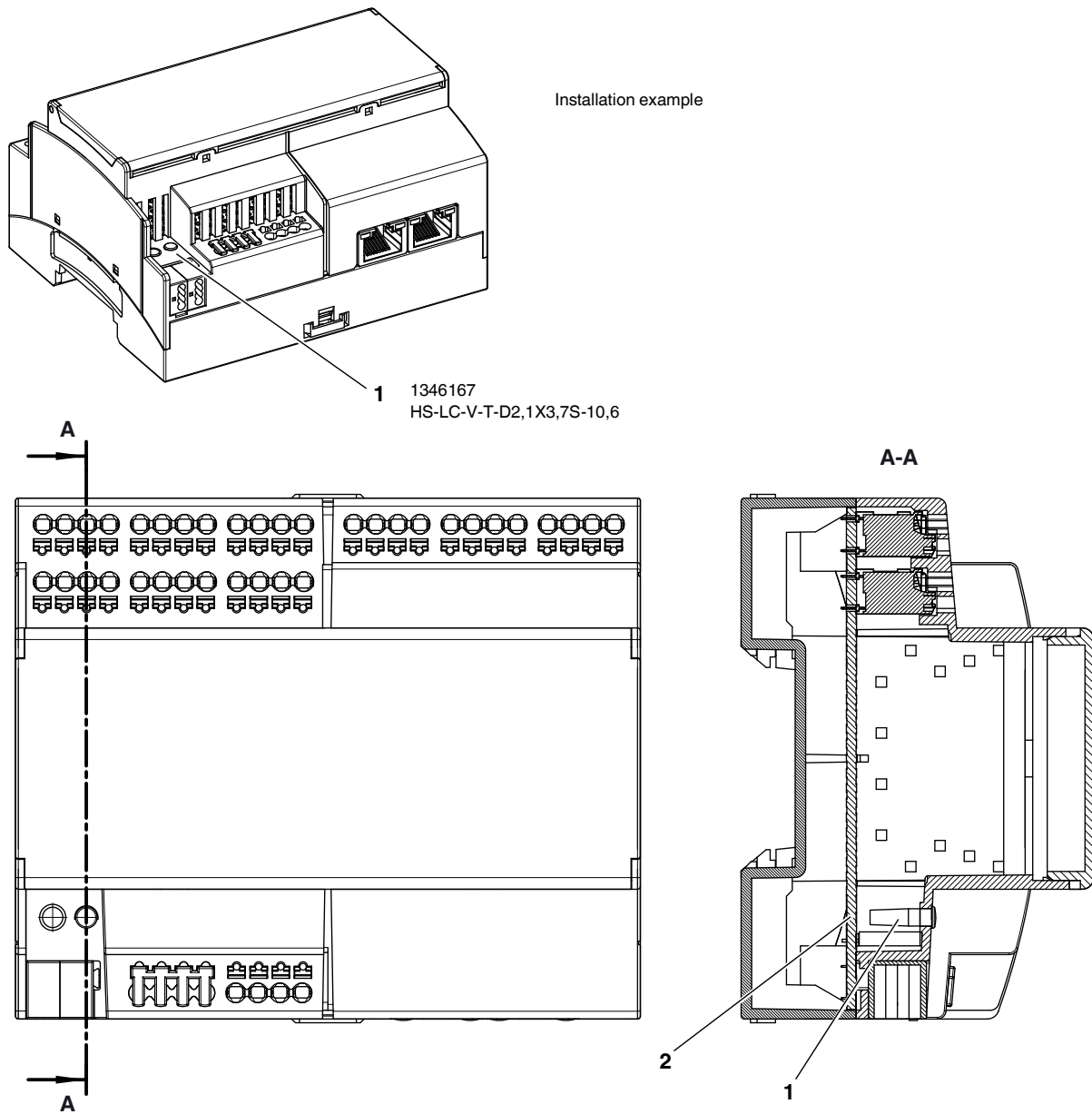
Figure 55 BC 35,6; BC 53,6; BC 71,6; BC 107,6; BC 161,6



- 1 Insertion plate, part of the housing cover
- 2 Printed circuit board
- 3 Light guides
- 4 BC ... DKL housing cover

8.6 BC modular housing range

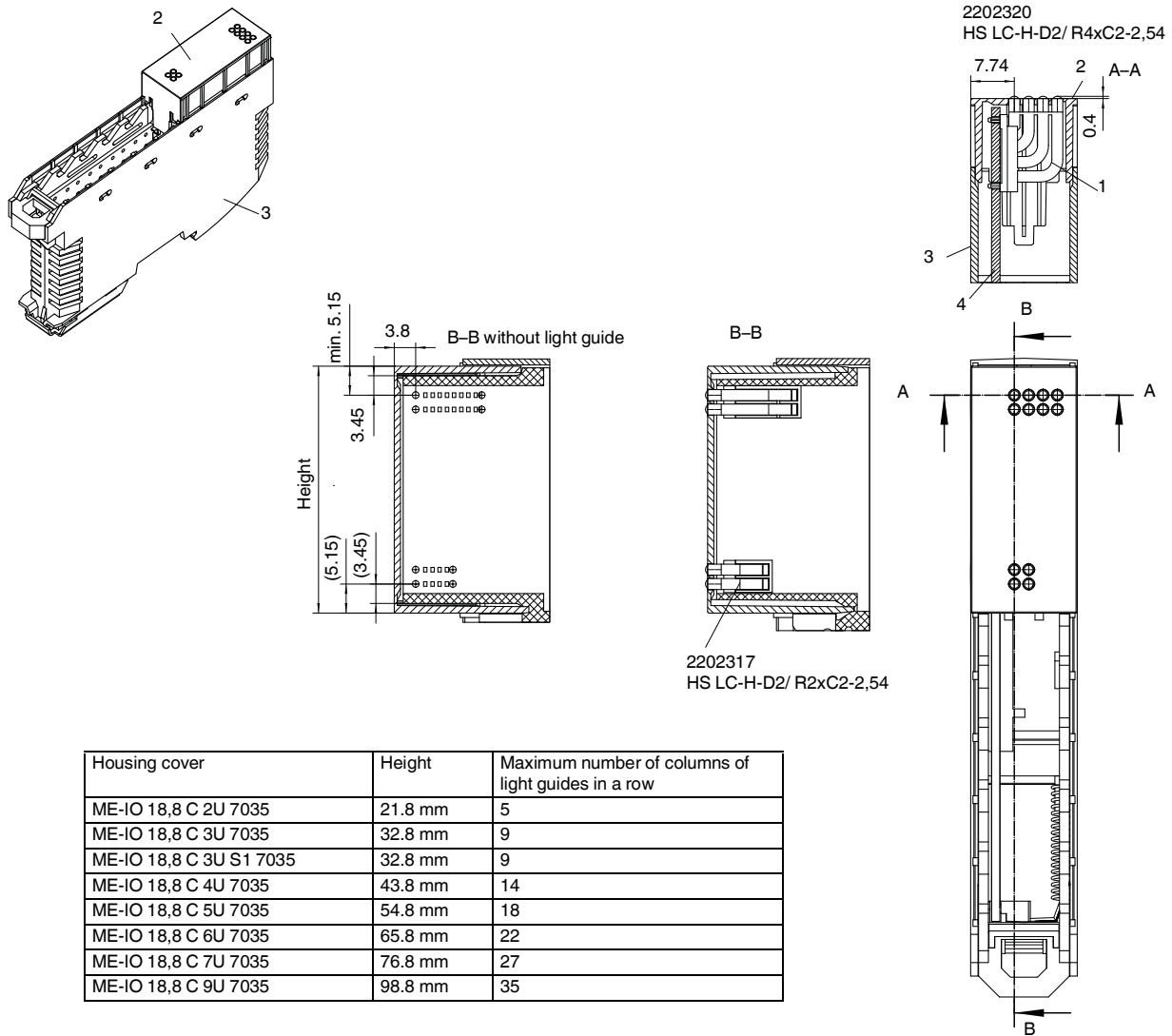
Figure 56 BC 71,6; BC 107,6; BC 161,6



- 1 Light guides
- 2 Printed circuit board

8.7 ME-IO 18,8 housing range

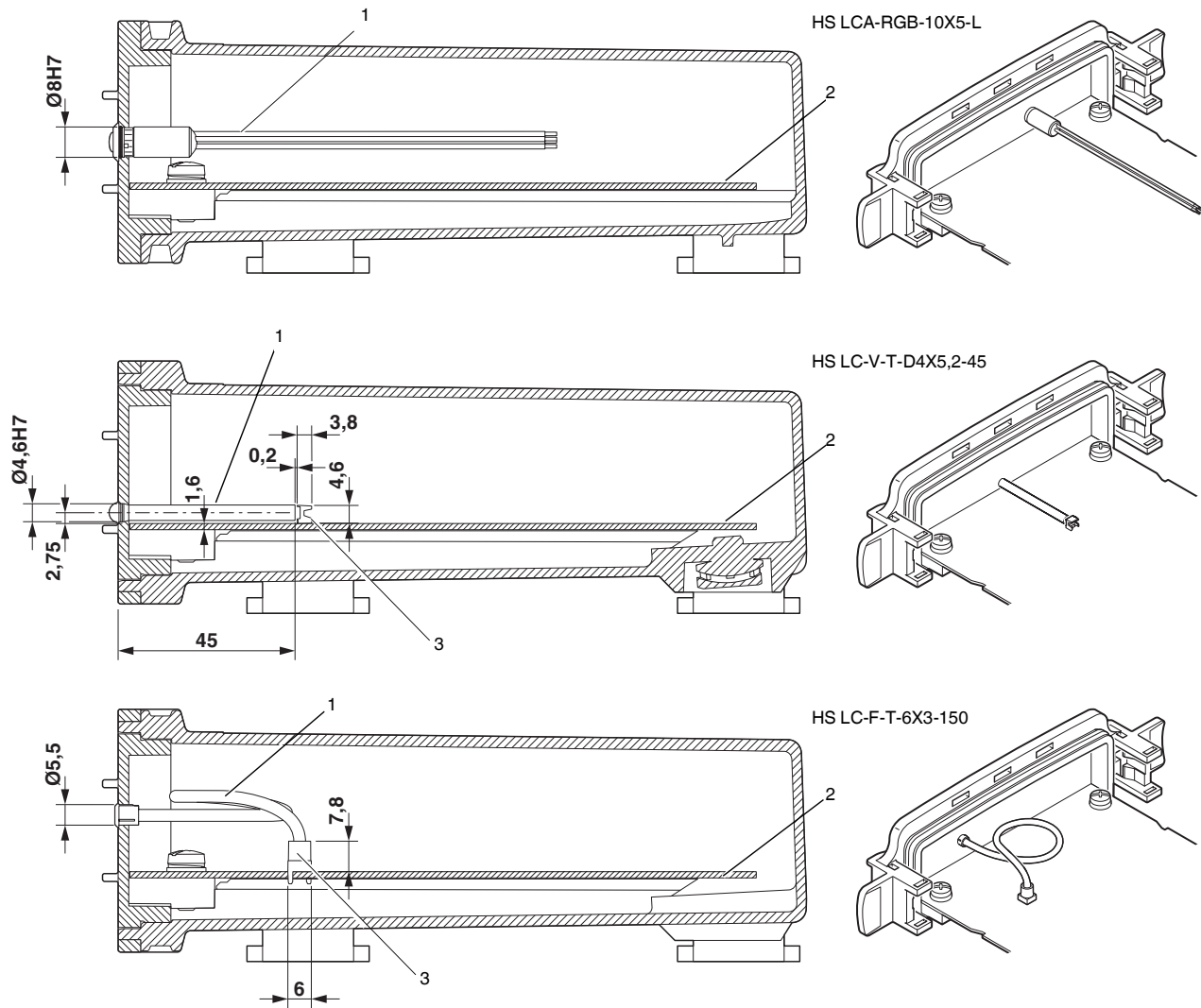
Figure 57 ME-IO 18,8



- 1 Light guides
- 2 ME-IO 18,8 C ...U housing cover
- 3 ME-IO 18,8 B/FE .../9 U TBUS lower housing part
- 4 Printed circuit board

8.8 ECS housing range

Figure 58 ECS



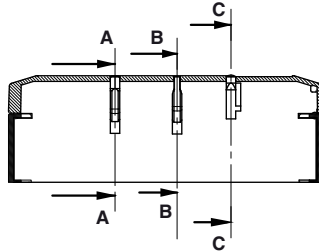
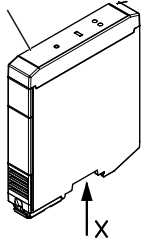
- 1 Light guides
- 2 Printed circuit board
- 3 LED

8.9 ICS housing range

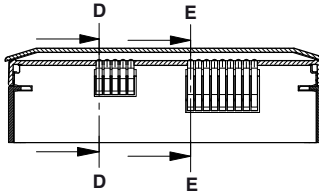
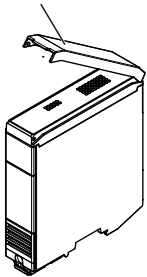
Figure 59 ICS 20/ 25 / 50 / 75

Installation examples

ICS 20-C...

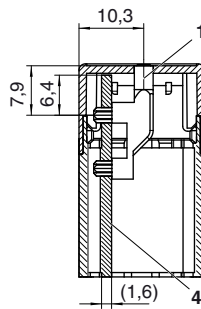


ICS 25-TL...



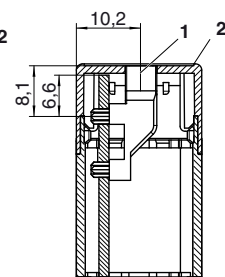
A-A

2202313
HS LC-H-D3/ R1xC1



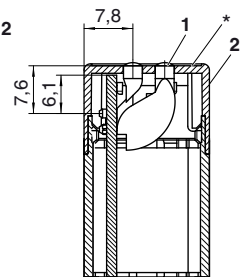
B-B

2202314
HS LC-H-5x2/ R1xC1



C-C

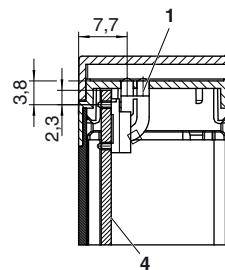
2202315
HS LC-H-D3/ R2xC1-5,08



* If a marking field is used, you have to adapt the position of the light guide.

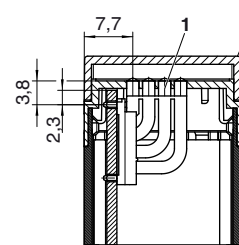
D-D

2202318
HS LC-H-D2/ R2xC5-2,54

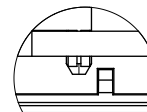
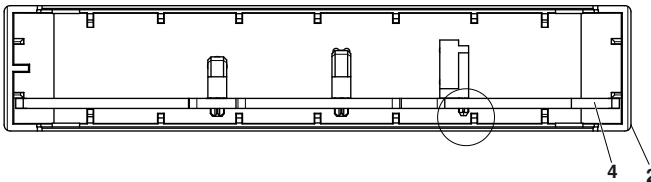


E-E

2202322
HS LC-H-D2/ R4xC9-2,54



X - View of the underside of the upper housing part (without the housing) with printed circuit board and light guide



Take the ribs into account when positioning the light guides

- 1 Light guides
- 2 Upper housing part, closed, ICS 20-C...
- 3 Upper housing part, hinged cover, ICS 25-TL...
- 4 Printed circuit board

Item	Number
HS LC-H-D3/ R2xC1-5,08	2202315 2 x 1
HS LC-H-D2/ R2xC1-2,54	2202316 2 x 1
HS LC-H-D2/ R2xC2-2,54	2202317 2 x 1
HS LC-H-D2/ R2xC5-2,54	2202318 2 x 5
HS LC-H-D2/ R2xC10-2,54	2202319 2 x 10

Item	Number
HS LC-H-D2/ R4xC2-2,54	2202320 4 x 2
HS LC-H-D2/ R4xC5-2,54	2202321 4 x 5
HS LC-H-D2/ R4xC9-2,54	2202322 4 x 9
HS LC-H-D2/ R4xC10-2,54	2202323 4 x 10
HS LC-H-D2/ R2XC4-2,54	2202531 2 x 4
HS LC-H-D2/ R4XC4-2,54	2202532 4 x 4