DICENTIS Flush

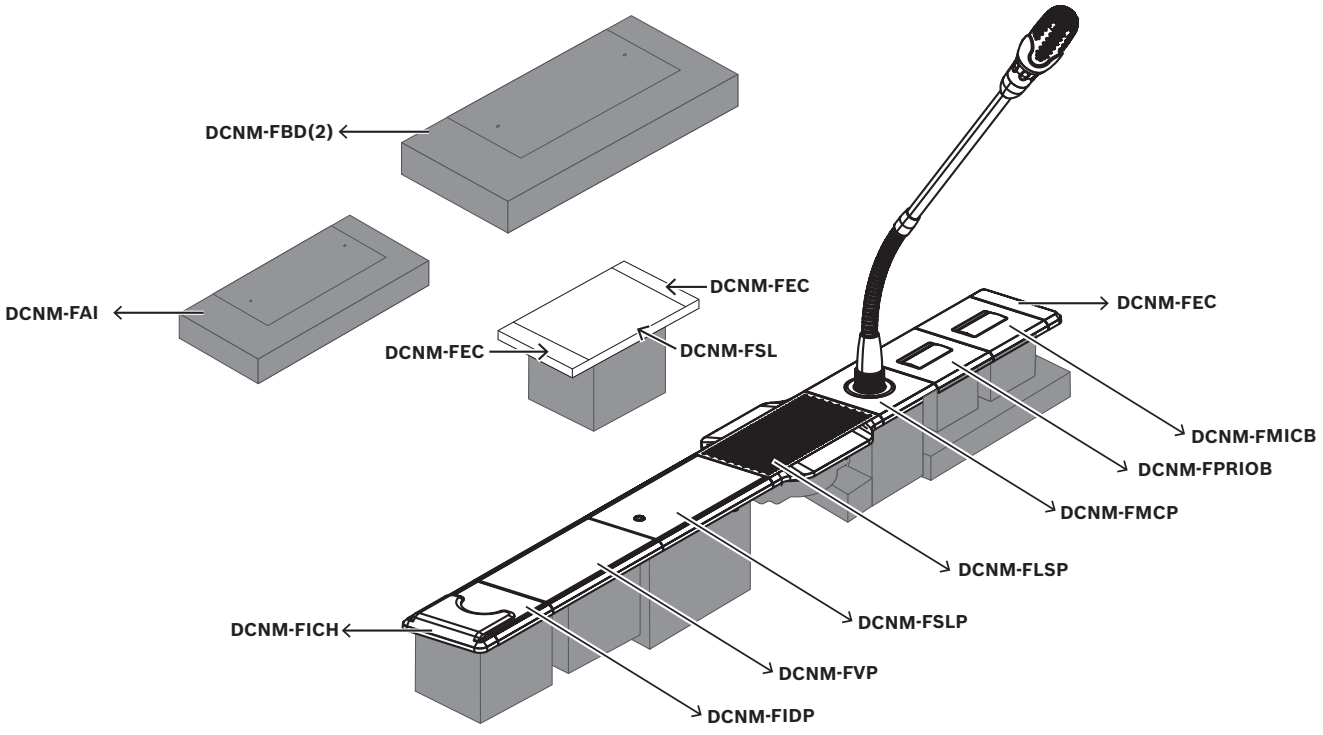
Space claim and cutout

en Application note

Table of contents

1 Overview of the Flush devices

Commercial type number	Material description
DCNM-FBD(2)	Flush base device (2)
DCNM-FAI	Flush audio interface
DCNM-FICH	Flush ID card holder
DCNM-FIDP	Flush identification panel
DCNM-FVP	Flush voting panel
DCNM-FSL	Flush language selector
DCNM-FSLP	Flush language selection panel
DCNM-FLSP	Flush loudspeaker panel
DCNM-FPRIOB	Flush priority button panel
DCNM-FMCP	Flush microphone connection panel
DCNM-FMICB	Flush microphone button panel
DCNM-FEC	Flush end cap



2 Assembly options

There are two assembly options to mount the Flush modules:

Block mounting in tabletops with a thickness of > 2 mm
To block mount, you need the Flush coupling blocks (DCN-FCOUP) and the Flush end cap (DCNM-FEC).

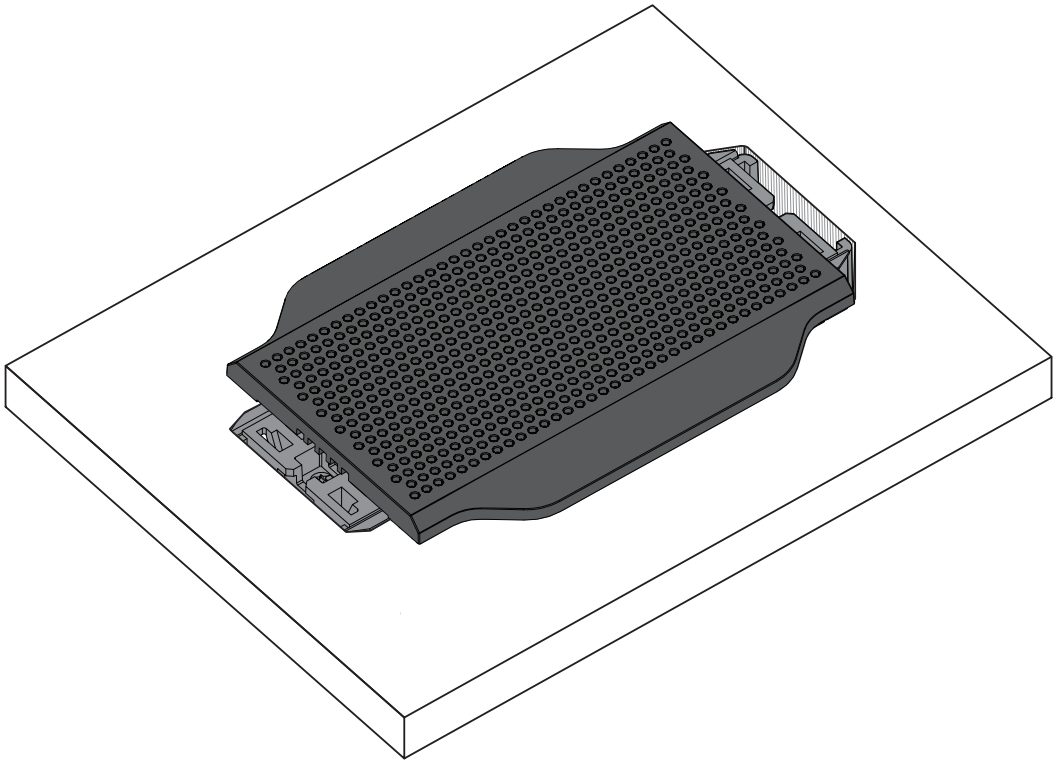


Figure 2.1: Block mounting (without endcaps)

Snap mounting for plates with a thickness of ≤ 2 mm

Snap mounting works only for one module.

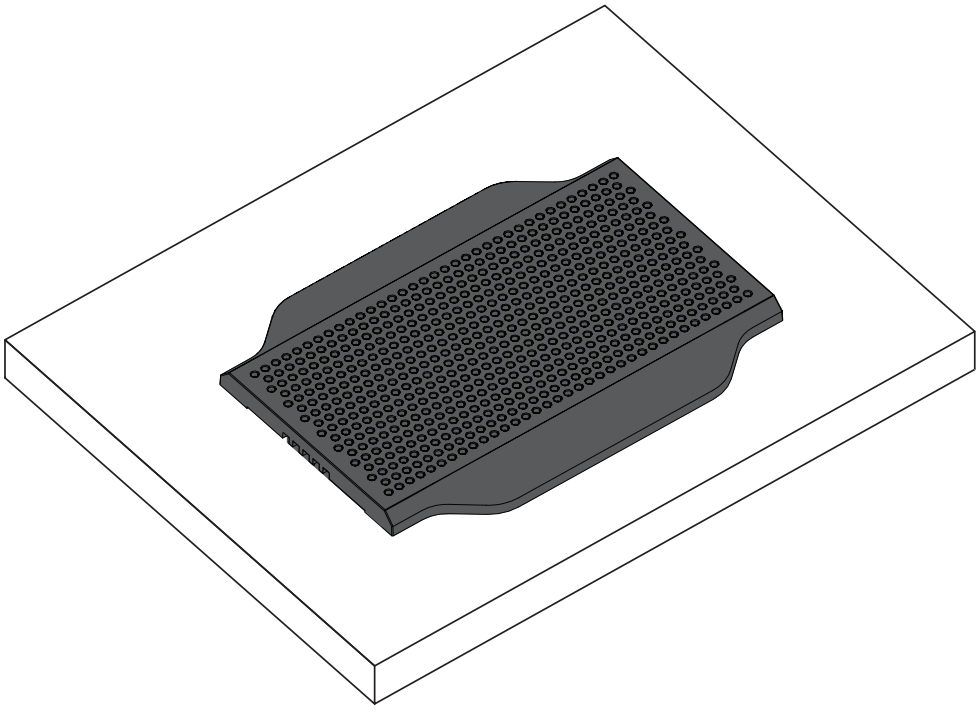


Figure 2.2: Snap mounting

3 Panel cutout without speaker

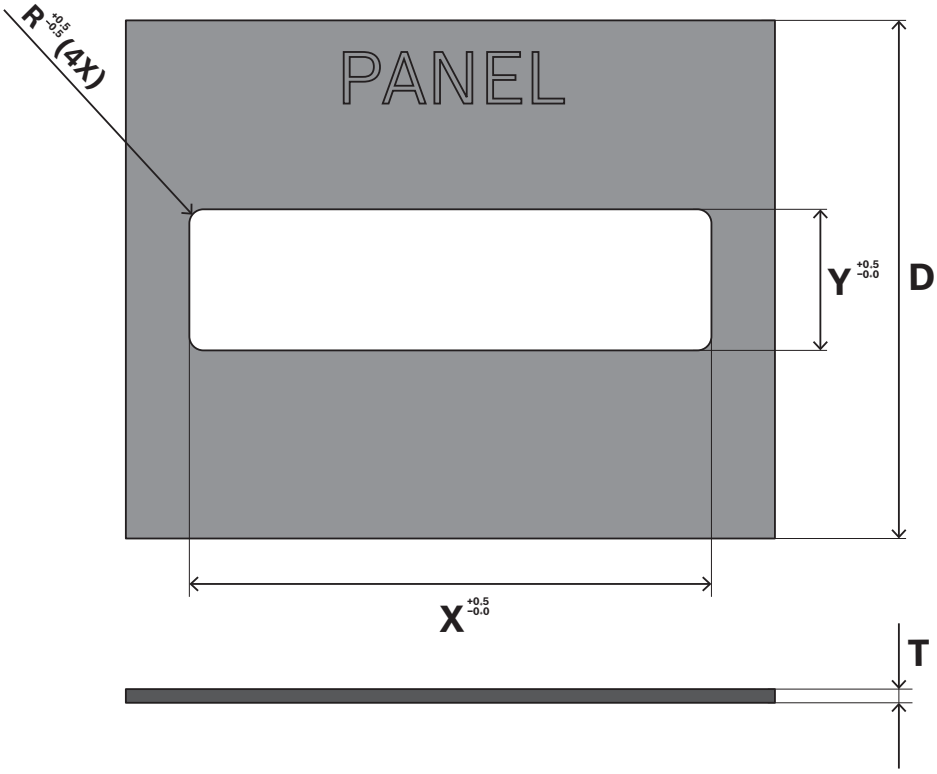


Figure 3.1: Standard panel dimensions for all DCNM-Fxx modules

The installation of the DCNM-FLSP requires a more complex panel geometry. Refer to *Panel cutout with speaker, page 10*.

3.1 Block mounting

Panel property	Block mounting
Use of DCN-FCOUP	✓
Number Size Factor (NSF)	qty (50 mm modules) + 2 x qty (100 mm modules)
T (mm)	> 2
X (mm)	71,5 + (NSF - 1) x 50
Y (mm)	33
R (mm)	2,5
D (mm) (Recommended free and flat surface for DCNM-FET)	> 130

Calculation example for dimension X (mm)		
Example of module mix	**NSF**	**X Value Block mounting**
1x 50 mm module	1	71,5
1x 100 mm module OR 2x 50 mm modules	2	121,5
1x 100 mm module AND 1x 50 mm module	3	171,5
2x 100 mm modules OR 4x 50 mm modules	4	221,5
2x 100 mm modules AND 1x 50 mm module	5	271,5
...	6	321,5
...	7	371,5
...	8	421,5
...	9	471,5
...	10	521,5
4x 100 mm modules AND 3x 50 mm modules	11	571,5
2x100 mm modules AND 8x 50 mm modules	12	621,5

3.2 Snap mounting

Panel property	Snap mounting
Use of DCN-FCOUP	**X**
T (mm)	≤ 2
X (mm)	38,2 + (NSF - 1) x 50
Y (mm)	32,2
R (mm)	1,5
D (mm) (Recommended free and flat surface for DCNM-FET)	> 130

Refer to *Panel cutout with speaker, page 10* for details on the speaker panel cutout.

Calculation example for dimension X (mm)		
Example of module mix	**NSF**	**X Value Snap mounting**
1x 50 mm module	1	38,2
1x 100 mm module	2	88,2

4 Panel cutout with speaker

Panel property	Snap mounting	Block mounting
Use of DCN-FCOUP	X	✓
Number Size Factor (NSF)	2	qty (50 mm modules) + 2 x qty (100 mm modules)
T (mm)	≤ 2	> 2
X (mm)	88,2	71,5 + (NSF - 1) x 50
Y (mm)	32,2	33
R (mm)	1,5	2,5
D (mm) (Use an empty and flat surface for DCNM-FET)	> 130	

To install a DCNM-FLSP	Snap mounting	Block mounting
Number size factor to be used for the speaker panel (NSF_{lsp})	2	For the sum of the modules to the left of the DCNM-FLSP: qty (50 mm modules) + 2 x qty (100 mm modules) + 1
Center speaker (Cs) mm	44,1	60,8 + (NSF_{lsp} - 1) x 50

Example of module mix	NSF_{lsp}	Cs Value Snap mounting	Cs Value Block mounting
1x DCNM-FLSP	1	44,1	60,8
1x DCNM-FLSP AND several module to the right of the DCNM-FLSP	1	NA	60,8
1x 50 mm module to the left of a DCNM-FLSP	2		110,8
1x 100 mm module to the left of a DCNM-FLSP	3		160,8
1x 100 mm module AND 1x 50 mm module OR 3x 50 mm modules to the left of a DCNM-FLSP	4		210,8
...	...		...
3x 100 mm modules OR 6x 50 mm modules to the left of a DCNM-FLSP	7		360,8

Use a jigsaw or a 67 / 68 mm hole saw to cut the available space as indicated by the dark grey outside areas.
Hint: Use Bosch hole saws with part numbers 2608594175 (67 mm) or 2608594176 (68 mm).

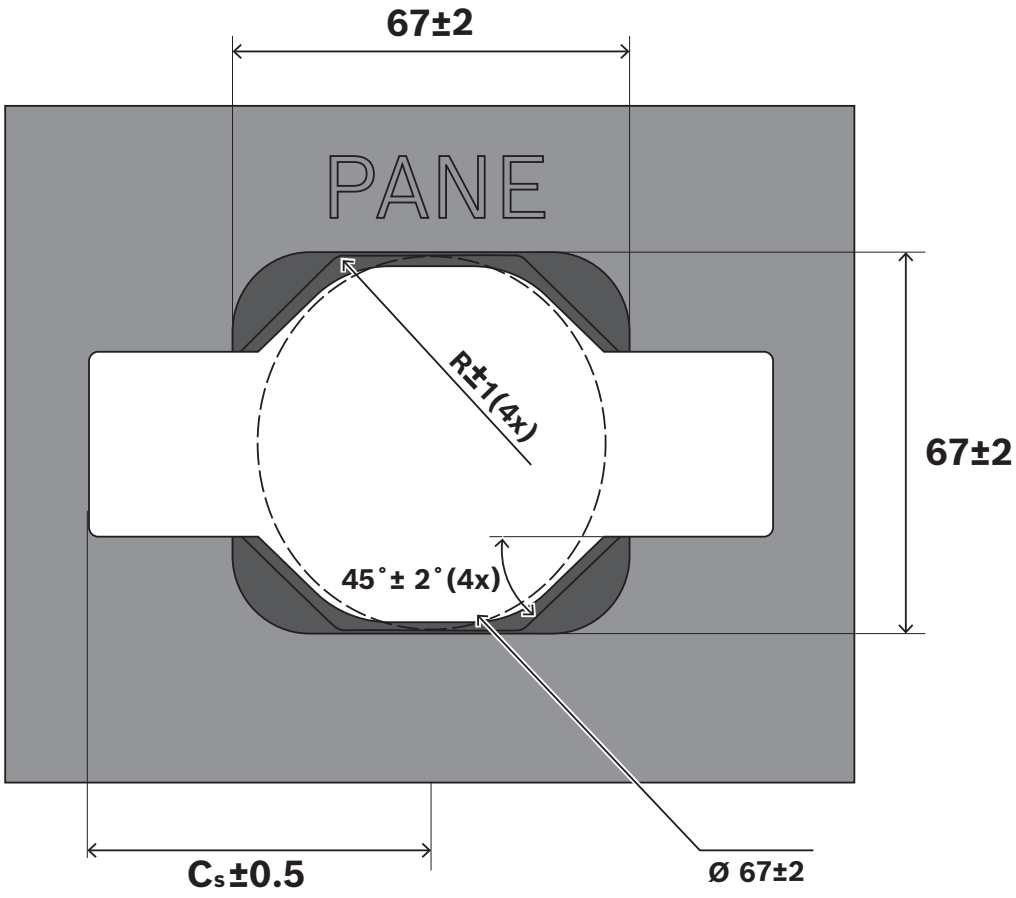
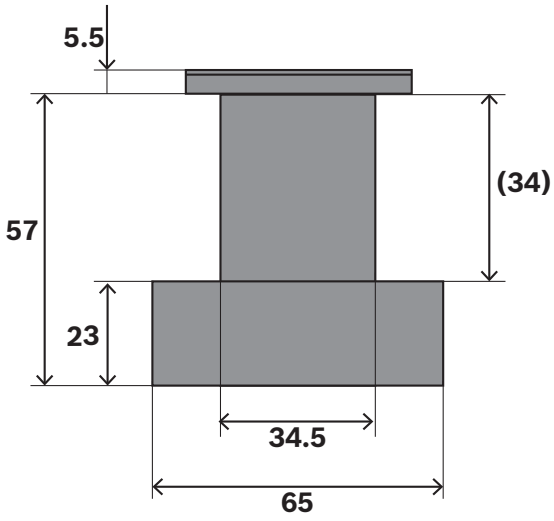
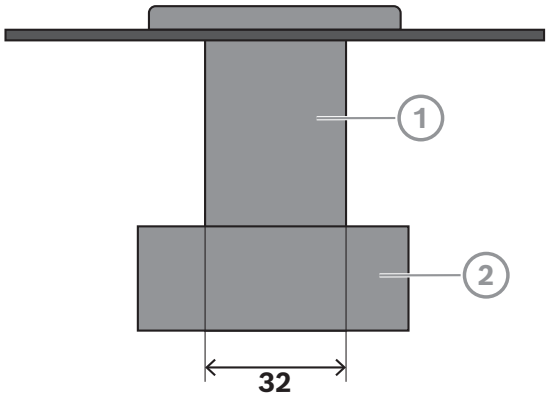


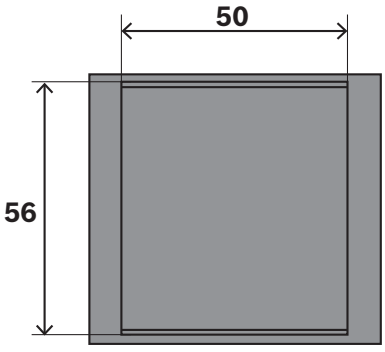
Figure 4.1: Panel dimension for DCNM-FLSP. All other dimension according to *Block mounting, page 7*.

5 Space claim

5.1 Flush identification panel (DCNM-FIDP)

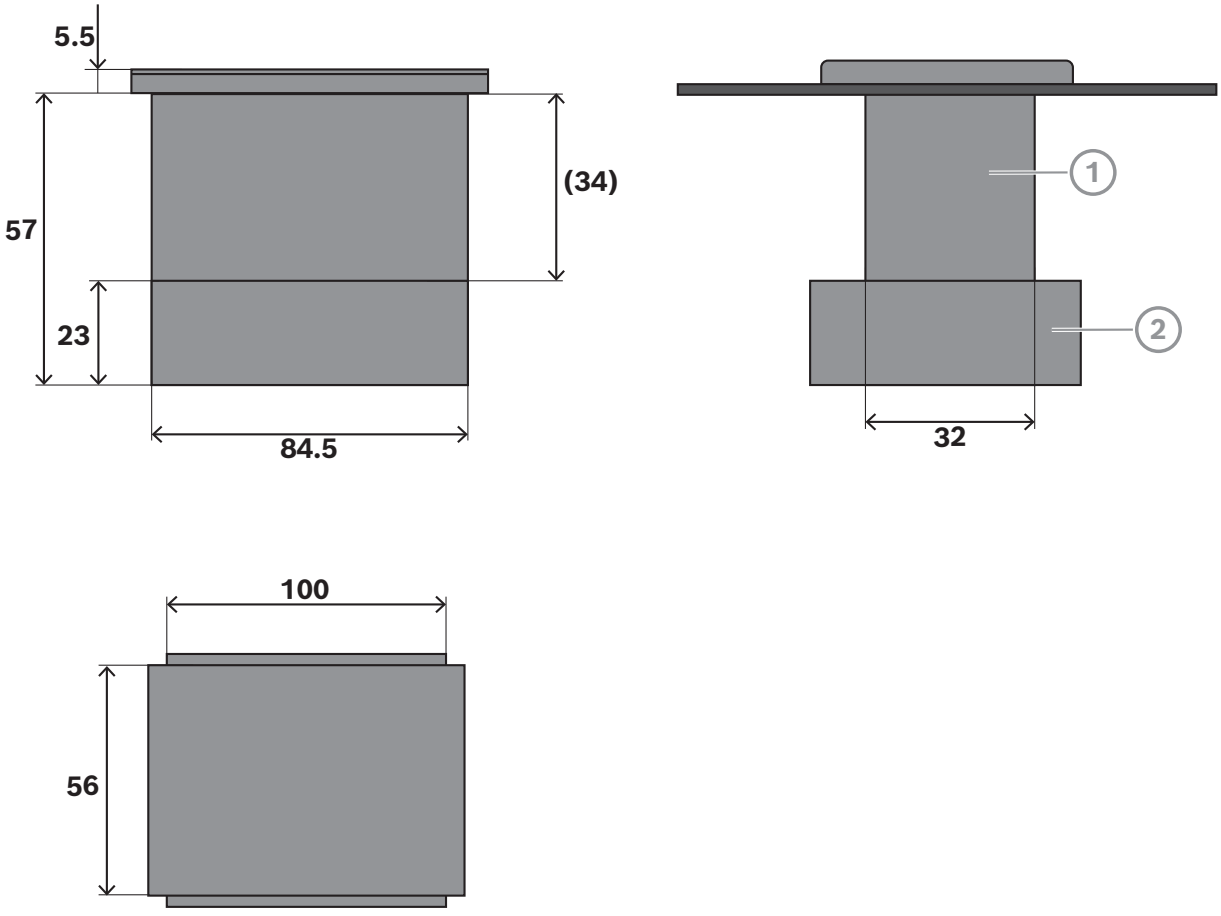






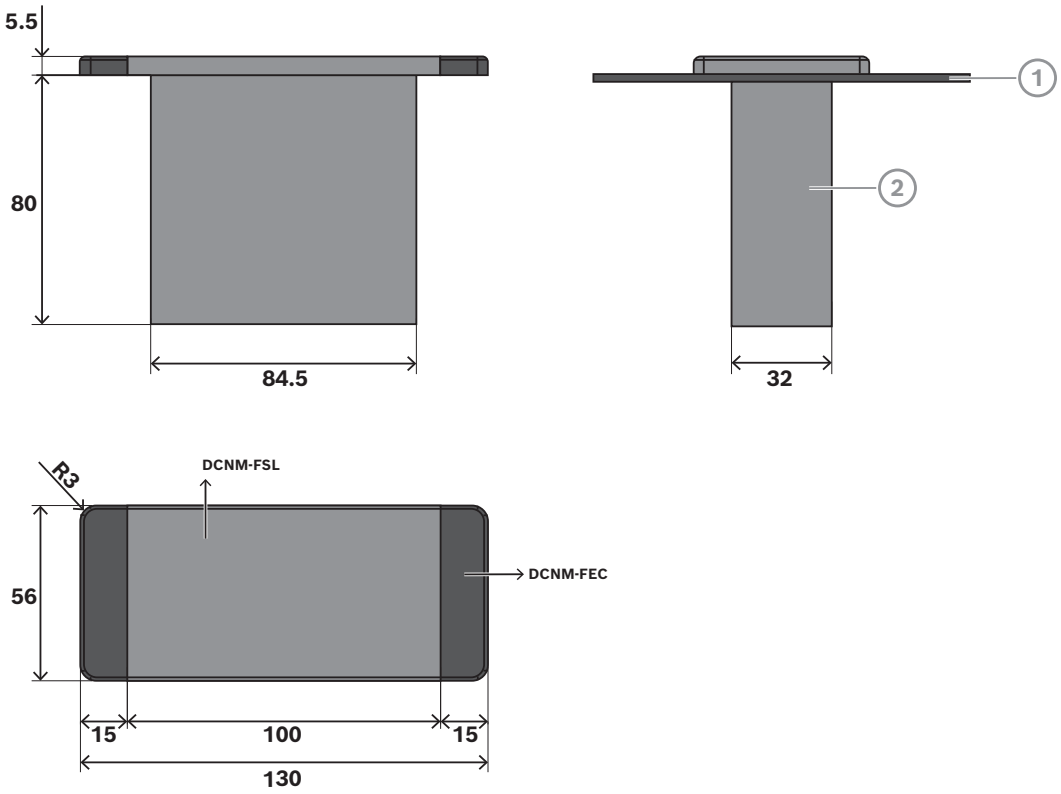
1	Space for the PCBA's and covers	2	Space for the cable plugs and cable routing

5.2 Flush voting panel (DCNM-FVP)



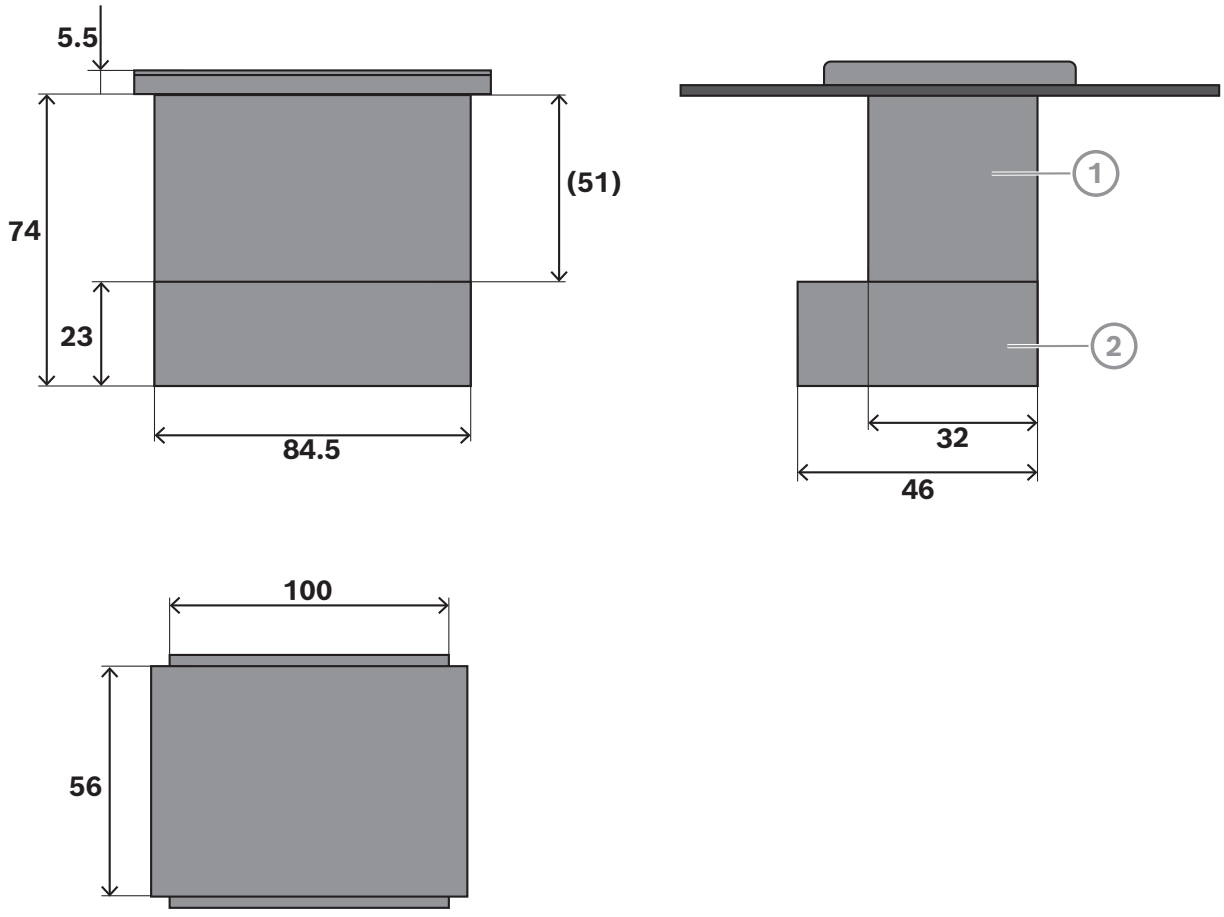
1	Space for PCBA's and covers	2	Space for cable plugs and cable routing

5.3 Flush language selector (DCNM-FSL) with endcaps



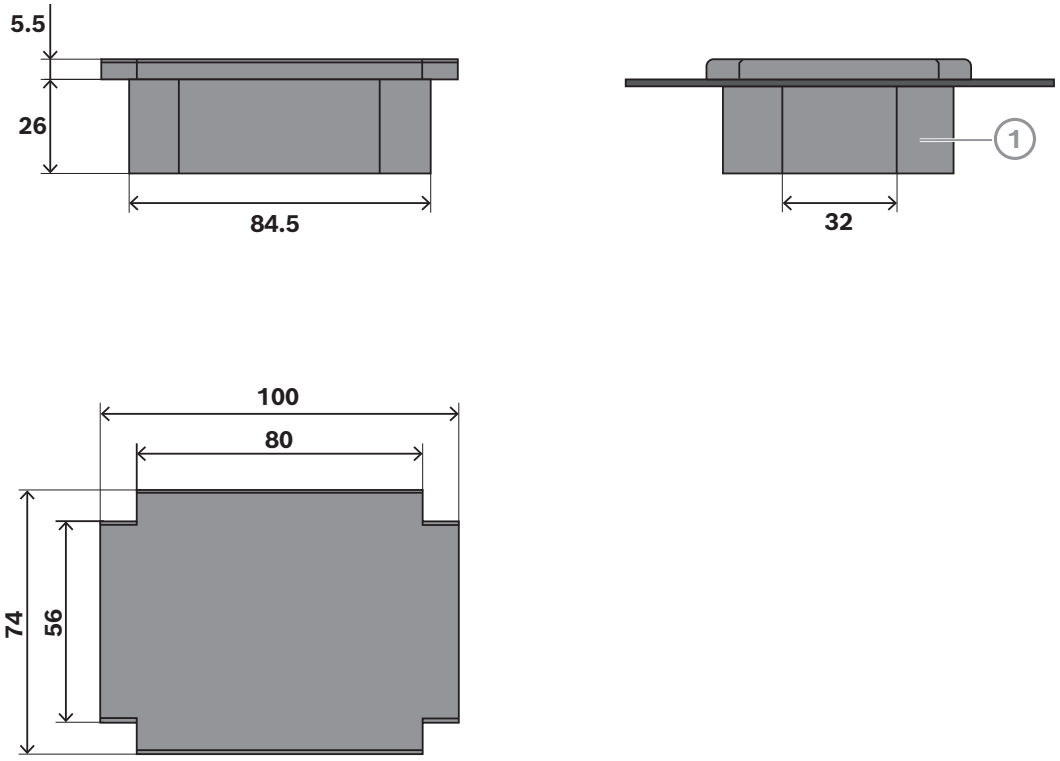
1	Panel	2	Space for PCBA's, covers and cable routing

5.4 Flush language selection panel (DCNM-FSLP)



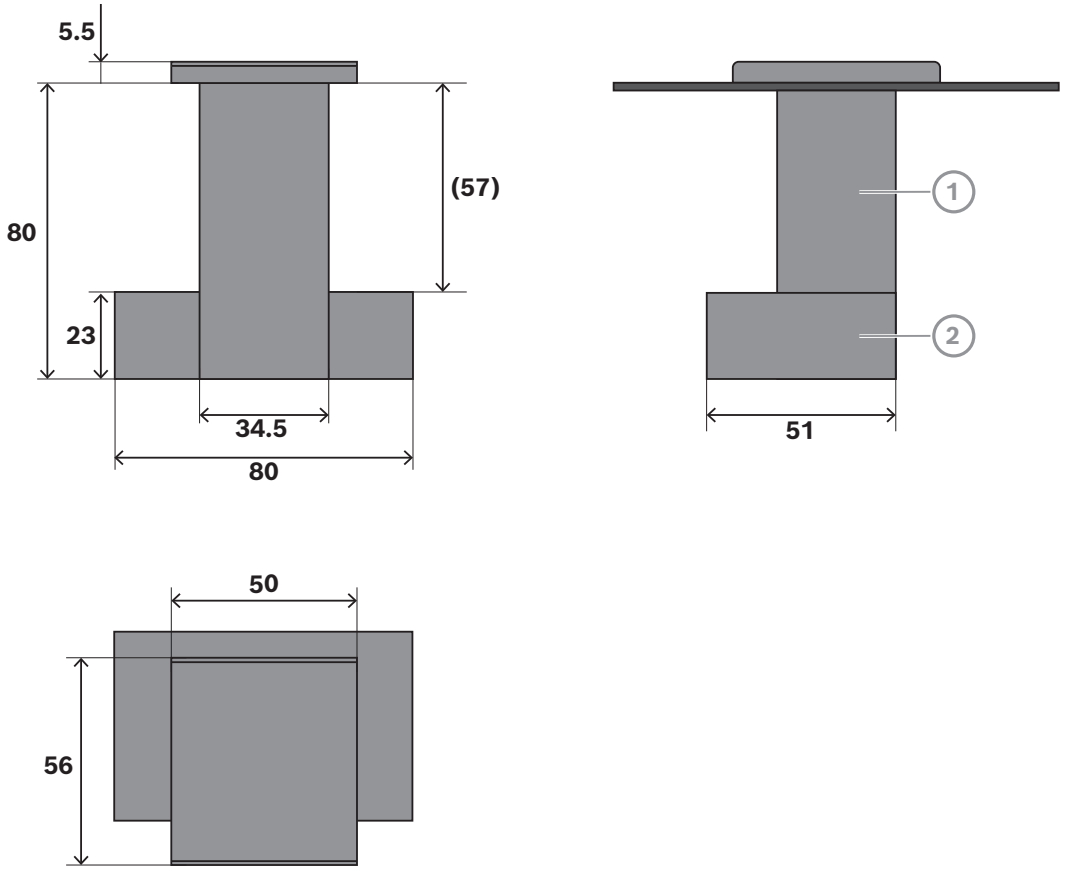
1	Space for PCBA's and covers	2	Space for cable plugs and cable routing

5.5 Flush loudspeaker panel (DCNM-FLSP)



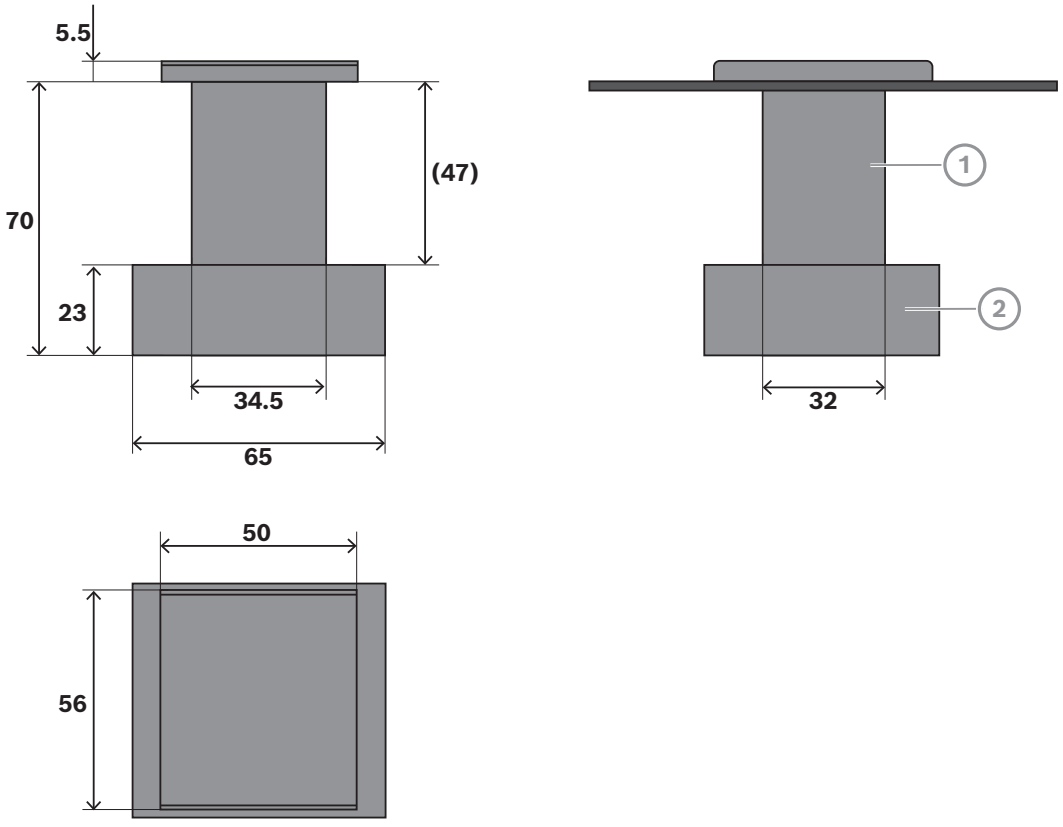
1	Space for cables, PCBA's, plugs and covers

5.6 Flush microphone connection panel (DCNM-FMCP)



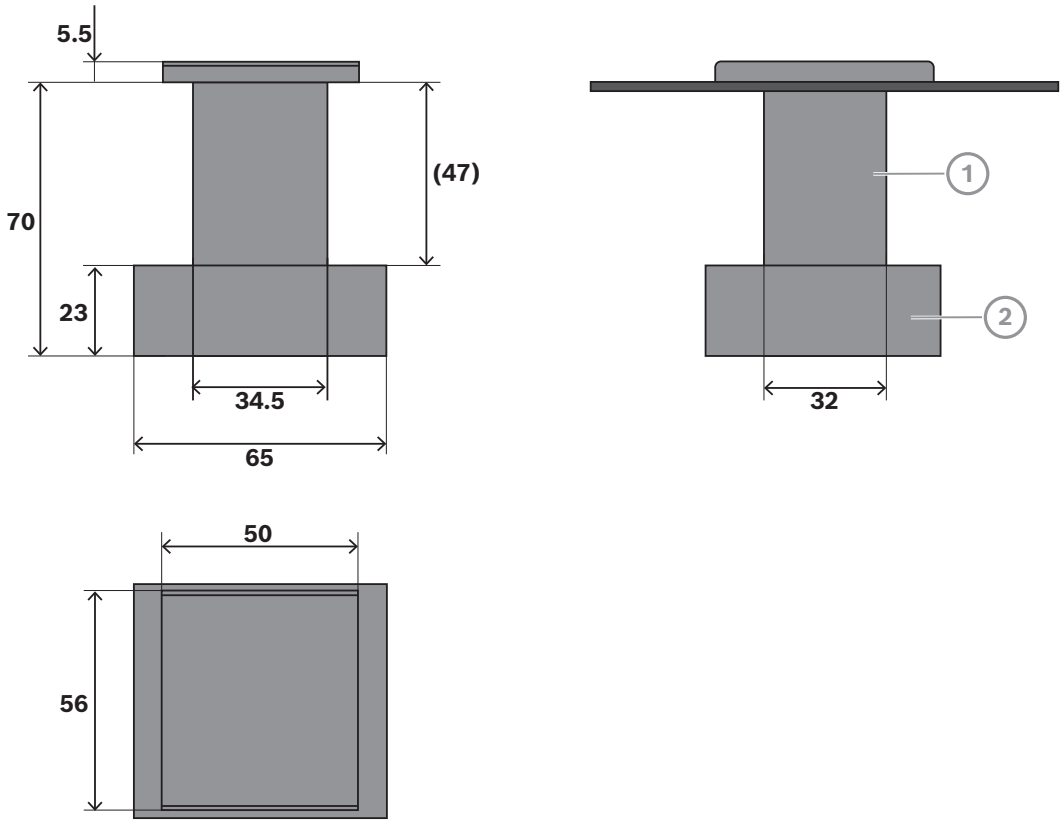
1	Space for PCBA's, plugs and covers	2	Space for cable routing	
			Advised bending radius Half diameter of cable jacket Protruding connector	= 15 mm = 2.5 mm = 5 mm + = 23 mm

5.7 Flush priority button (DCNM-FPRIOB)



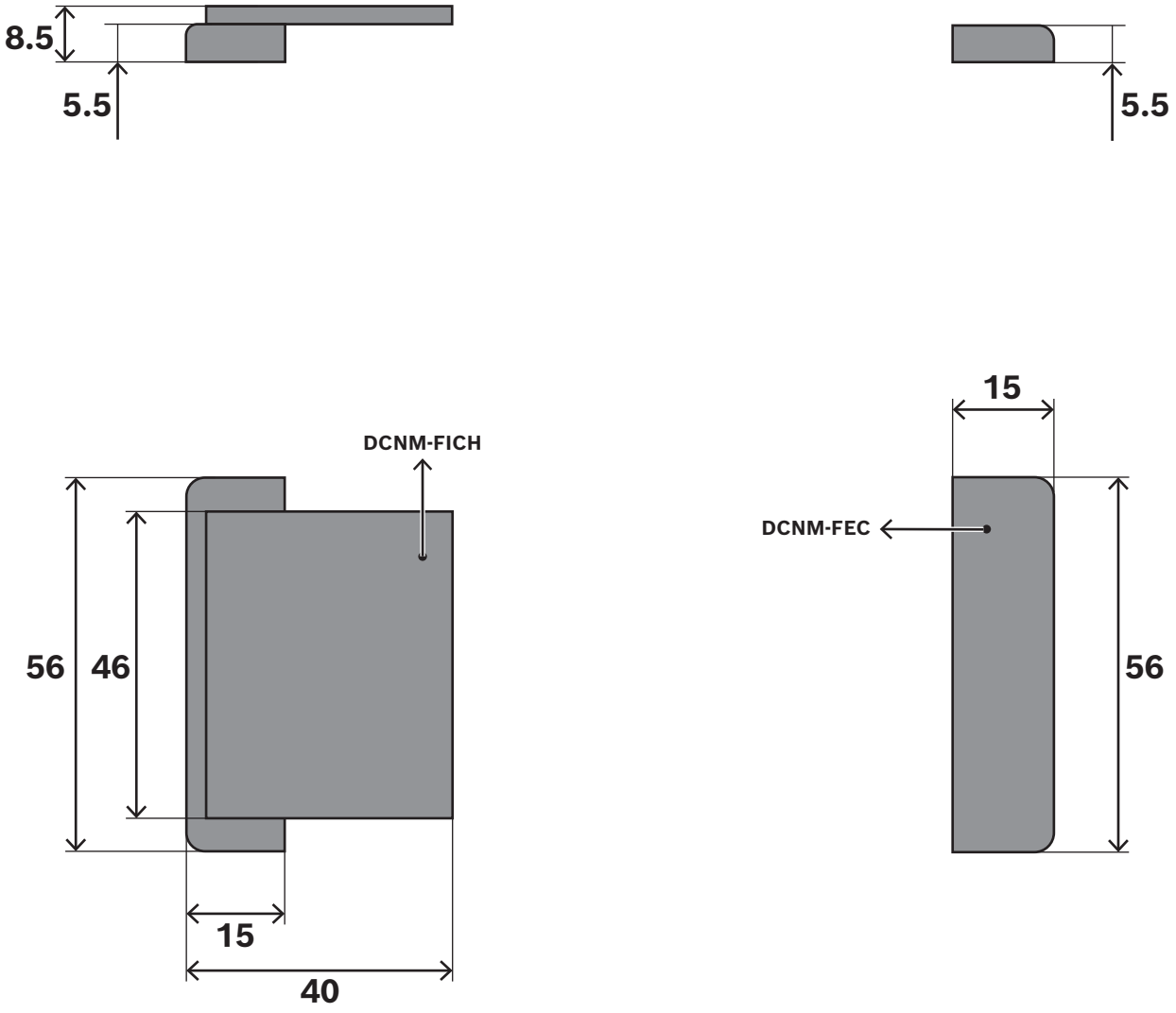
1	Space for PCBA's and covers	2	Space for cable plugs and cable routing

5.8 Flush microphone button panel (DCNM-FMICB)

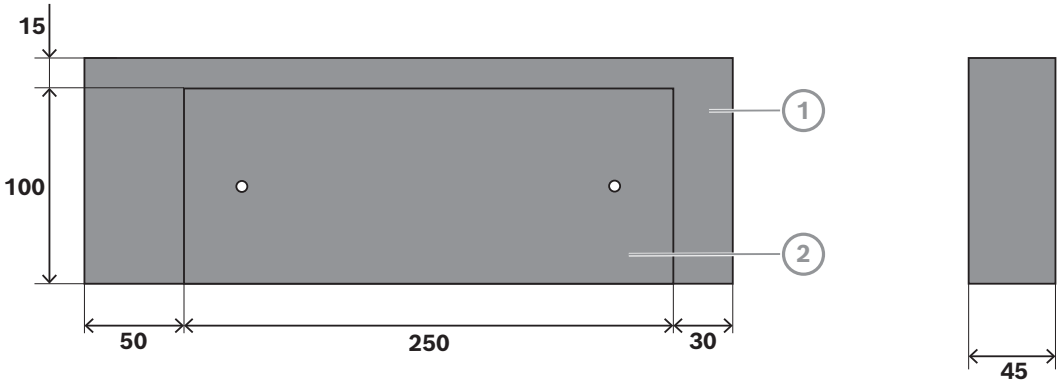


1	Space for PCBA's and covers	2	Space for cable plugs and cable routing

5.9 Flush ID card holder and Flush end cap (DCNM-FICH and DCNM-FEC)

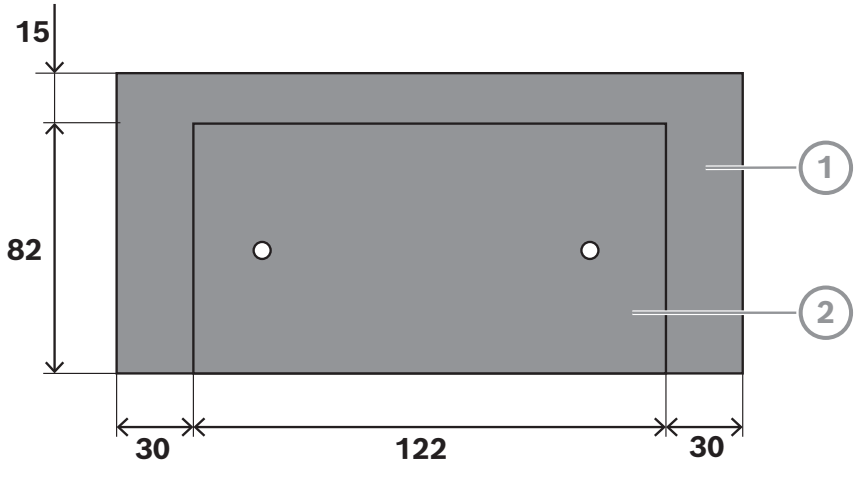


5.10 Flush base device (DCNM-FBD(2))



1	Space for cable routing	1	Space for PCBA's and covers

5.11 Flush audio interface (DCNM-FAI)



1	Space for cable routing	2	Space for PCBA's and covers

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