

U-TK Transformer Kit



- Universal transformer kit
- Power rating up to 100 W or 200 W
- High quality toroidal transformer and connectors
- Power tapping (full, half or quarter power) and impedance selection switch
- Available in black or white

The U-TK transformer kit converts a low impedance loudspeaker with an impedance of 4, 8 or 16 Ω (e.g. DYNACORD TS 100 or TS 200) into a high impedance speaker. This enables the speaker to be connected to a 70 V or 100 V loudspeaker line. The transformer kit is mounted between the loudspeaker and a WMK (Wall Mount Kit).

Parts included

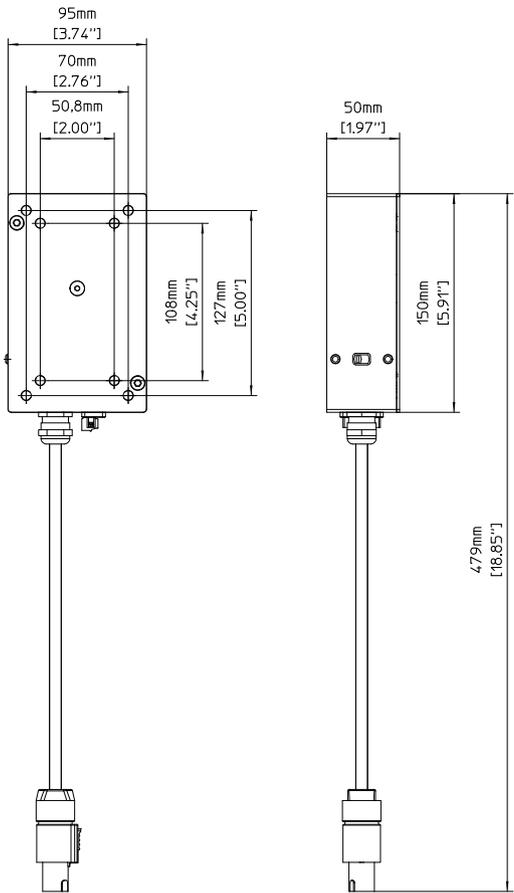
Quantity	Component
1	Transformer kit
1	Euroblock connector 4-pole (Phoenix, MC 1,5/4-STF-3,81, 1827729, F.01U.104.173)
4	Screws (U-TK100: M6x70, U-TK200: M6x95)
1	User documentation

Technical specifications

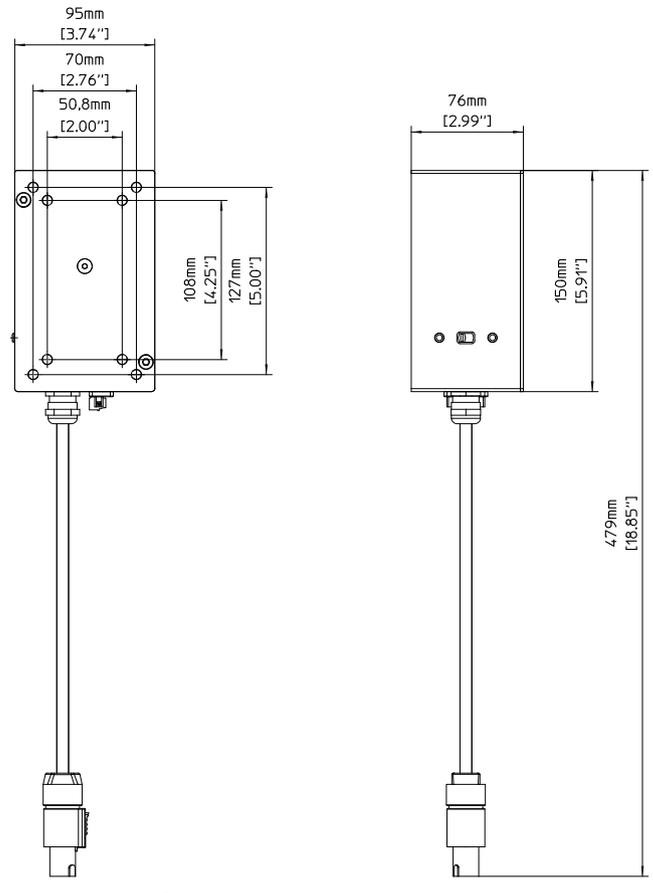
	U-TK100	U-TK200
Maximum output power	100 W	200 W
Power tapping	1 P, ½ P or ¼ P	1 P, ½ P or ¼ P
Speaker impedance (switchable)	8 or 16 Ω	4 or 8 Ω

	U-TK100	U-TK200
Connectors	<ul style="list-style-type: none"> • 100 V/70 V speaker line Euroblock connector 4-pole • Low impedance speaker Flexible cable (300 mm) with speakON plug 	
Net weight	1.8 kg	2.65 kg
Shipping weight	1.95 kg	2.90 kg
Product dimensions (Width x Height x Depth)	95 x 150 x 50 mm	95 x 150 x 76 mm
Color	TKx00B: Black (RAL 9005, jet black) TKx00W: White (RAL 9010, pure white)	

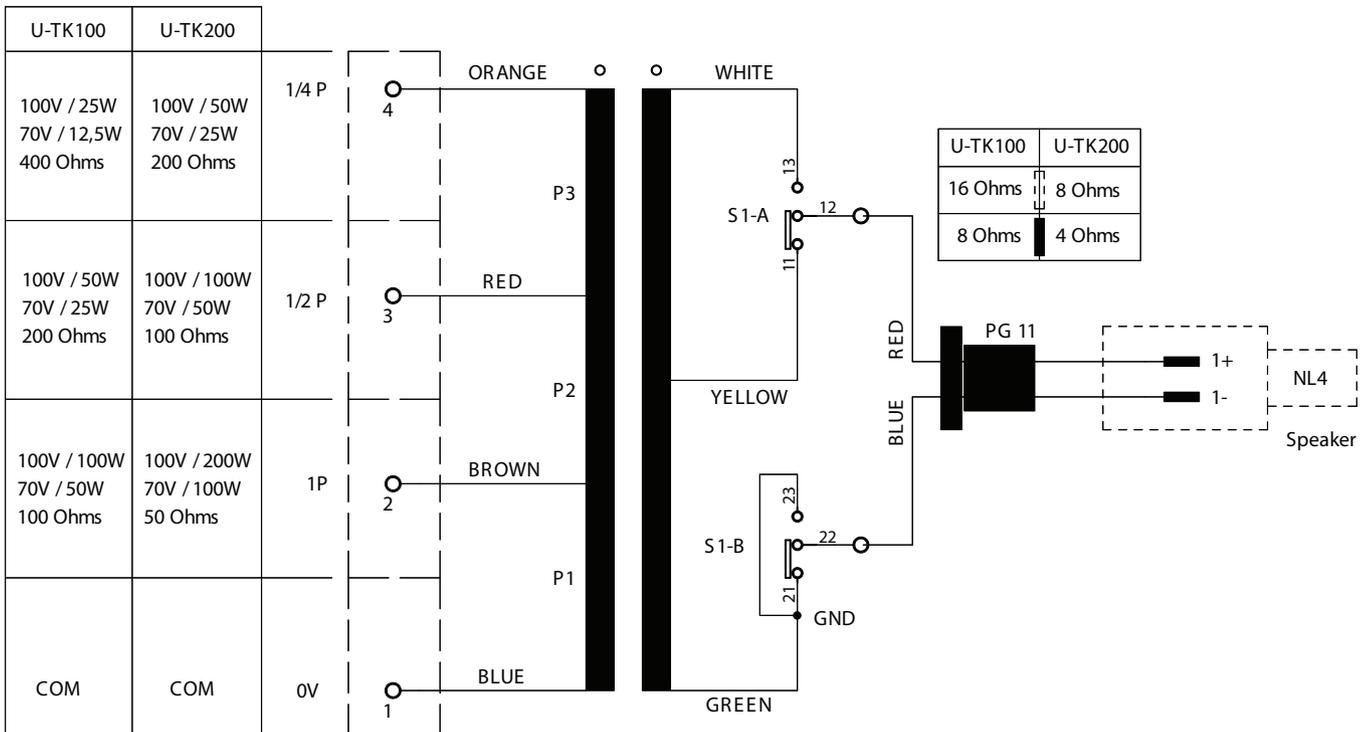
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Dimensions of U-TK100



Dimensions of U-TK200



Circuit diagram

Functions

Installation



Caution!

Please check the documentation of the wall mount kit WMK-10 or WMK-25 for detailed installation instructions, especially when mounting the transformer kit to the wall.

Use the screws included with the transformer kit to bolt the speaker to the transformer kit and the adaptor plate, see illustration.

Configuration

Use the switch on the side of the transformer kit to select the impedance of the loudspeaker (see following table).

Speaker	U-TK100		U-TK200	
	8 Ω	16 Ω	4 Ω	8 Ω
TS 100		X		
TS 200	X			X
TS 400			X	
D 8	X			X
VL 62		X		
VL 262	X			X

* Impedance settings for DYNACORD speakers

Connection

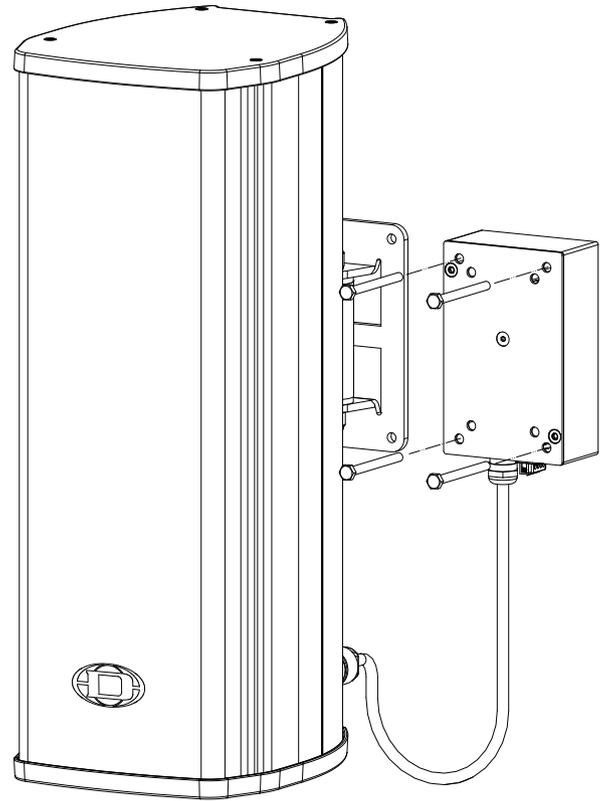
Connect the (-) input line to the COM input terminal and the (+) input line to the terminal corresponding to the desired wattage in either the 70 V or 100 V column in following tables.

U-TK100 Input terminal	Impedance	Voltage of speaker line	
		70 V	100 V
1/4P	400 Ω	12.5 W	25 W
1/2P	200 Ω	25 W	50 W
1P	100 Ω	50 W	100 W

* Power tapping (max. power) of U-TK100

U-TK200 Input terminal	Impedance	Voltage of speaker line	
		70 V	100 V
1/4P	200 Ω	25 W	50 W
1/2P	100 Ω	50 W	100 W
1P	50 Ω	100 W	200 W

* Power tapping (max. power) of U-TK200



Installation to wall

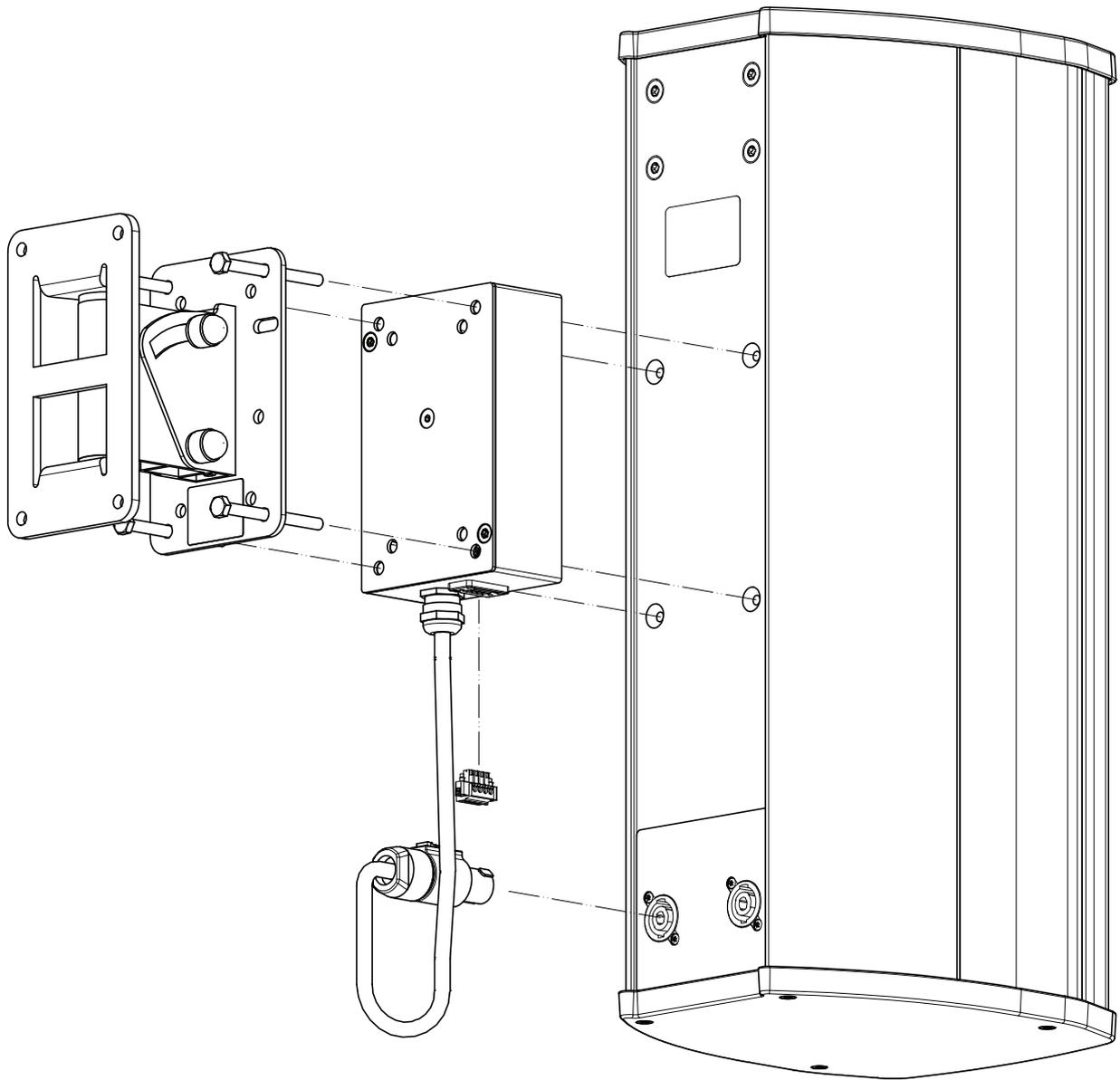
Input signal processing

The transformer kit is designed to be used with a 50 Hz Butterworth 24 dB/octave active high-pass filter inserted in the signal chain at the input to the amplifier. This filter protects the amplifier from damage caused by transformer saturation at low frequencies and allows any number of transformers to be driven on the same line, up to the rated power of the amplifier.



Caution!

Failure to use the proper high-pass filter may result in damage to the amplifier.



Installation between WMK and speaker

Installation/configuration notes

Warning!

General Safety Notice

Using Dynacord speaker system mounting accessories is only allowable in compliance with the according mounting instructions and BGV C1 regulations. To comply with safety aspects we specifically point out that not obeying mounting instructions, altering accessories in any way and using the mounting accessories with systems of other manufacturers can result in weight overload. All components may be interconnected and used as prescribed only. Use suitable transportation devices/vehicles only. Piling without packaging or wrapping is strictly prohibited.



Warning!

Safety Measures

Speaker cabinet systems that are mounted on-stage, above the stage or in studios need to be secured against tipping over or falling according to GUV 6.15 (BGV C1) regulations. This has to be carried out using steel cables (safeties) or chains, which are fit for carrying the corresponding load. Specifically the use of plastic mantled steel wire ropes is not permissible. Obeying all safety measures as stated in these regulations as well as the maximum height of fall of 20cm is mandatory. Rigged speaker systems always have to be secured against tipping over or falling by an additional, independent safety joint. This can be accomplished for example using an adequately dimensioned steel cable (safety).



Warning!

General Mounting Notice

Use comprehensively dimensioned fasteners (DIN 18800) for the attachment on traverses, ceilings, walls, etc. Leave this kind of mounting to competent personnel only. All screw joints have to comply with maximum fastening torque values (DIN 898).



Warning!

Safety Aspects

Accessories for mounting speakers and sound reinforcement systems are safety-relevant parts, which, in the case of failure or collapse, can seriously endanger the life and health of human beings. That is the reason why complying with the safety aspects of the following regulations is absolutely mandatory. Rigging gear is subject to abrasion, continuous wear, etc. That is why the requirements stated in these regulations are as strict as they are, so that safe operation can be guaranteed even after yearlong use. Unfortunately, precisely assigning several of these regulations in relation to safety aspects is not always possible plus that applicability sometimes varies from country to country.



Warning!

Inspection and Maintenance

For safety-relevant reasons a regular inspection of the accessories is inevitable. Prior to each use inspect the loudspeaker enclosures for any wear, deformation, notches, cracks and corrosion. Replace any damaged accessories immediately. In many states the regular inspection of attachment and accessories is prescribed. It is advisable to accomplish an annual inspection according to BGV C1 every 4 years by experienced technical personnel and additionally of a certified expert. In this connection maintaining of a test book is important, in which all accessories with their data and the recurring inspection are registered and are thus available at any time for potential controls.



Ordering information

U-TK100B

Transformer kit, 100 W, black
Order number **F.01U.298.728**

U-TK100W

Transformer kit, 100 W, white
Order number **F.01U.298.729**

U-TK200B

Transformer kit, 200 W, black
Order number **F.01U.298.730**

U-TK200W

Transformer kit, 200 W, white
Order number **F.01U.298.731**

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