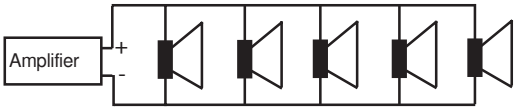
100 V line transformer TR100, for DLS In-wall speakers

100 V Line Speaker Systems

If you want to install In-ceiling speaker or In-wall speakers in hotels, schools, churches or restaurants it is often much easier to use Line Speaker Systems. The most common way is the 100 V system. It is a ”constant-voltage-system” where the amplifier is equipped with a step-up transformer which increases the normal voltage output up to 100 Volts.
The main difference between a low impedance speaker system in 4 or 8 ohm is the way the individual loudspeakers are connected to the amplifier. In a convetional low-impedance system you must connect the speakers in series and parallell in a way to maintain the correct impedance for the amplifier.

In a 100 Volt line system, a large number of single loudspeakers, each equipped with a step-down transformer, can be connected to one single speaker cable. Each speaker must be equipped with a step-down transformer.

This TR100 have multiple tabs, 5W, 10W and 20W to match the desired power level to be applied to the loudspeaker.
All the loudspeakers step-down transformer primaries are connected in parallel to the constant voltage line.

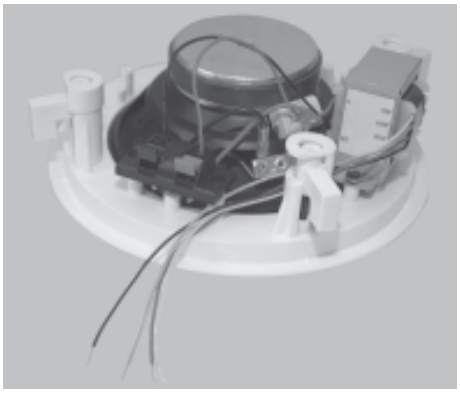


Parallel connection of 100 V Line Speakers

DLS Svenska AB
P.O. Box 13029, SE-40251 Göteborg, Sweden
Tel: +46 31 840060, Fax: +46 31 844021
E-mail: info@dls.se - www.dls.se

Technical data TR100

Art.no	9-26890
Input	20 W - 10W - 5 W / 100Volt
Output	4 ohms
Insertion loss	1dB max @ 1 kHz
T.H.D	1% max @ 70 Hz
Frequency response	1 kHz +- 1 dB
	50 Hz - 1 dB
	10 kHz - 1,5 dB
	20 kHz - 3 dB
Size W x H x D	42/61 x 53 x 43 mm



The TR100 is attached to the speaker frame with two screws as on the photo. It fits directly to models **IW126i, IW426 and IW428**.
Red and black cables are connected to the speaker terminal + and -.
Line voltage connect to the transformer primare wires between black, and one of the others (yellow, orange or brown).

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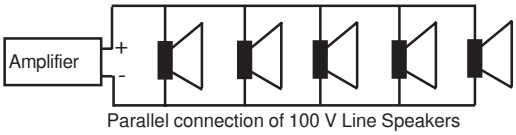

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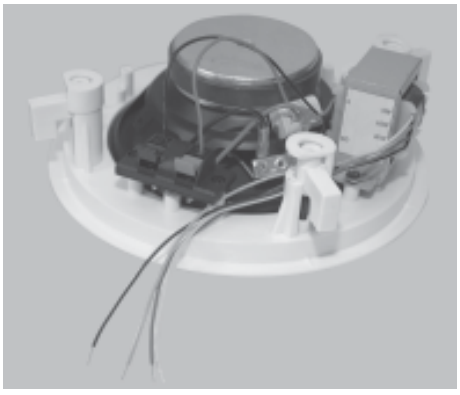

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