ITEC NEODYMLINE 8/100V/WP/54-24 SPEAKER SYSTEMS

Tested acc. to EN 54-24
Type: B CE
Manufactured by
ITEC Tontechnik und
Industrieelektronik GesmbH
8200 Laßnitzthal 300
Austria / Europe

DOC. 002/2012_NL8
1293-CPD-0296

ITEC®
itec-audio.com

Enviromental Type:	B
Termination	Inside screw terminal
Rated Noise Voltage:	100 V
Rated Noise Power	50 W
Power Setting:	50 / 25 / 12,5 / 6,25 W
Driver:	8 x 3“ cone neodymium
Weight	5,4 kg
Dimensions (W x H x D):	100 x 967 x 100 mm
IP-rating	min 33
Material/Color	welded aluminium / powder coated RAL 9010, RAL 9011 or customized
Mounting	powder coated rigid bracket / swing and tilt bracket
Sensitivity for the stated reference axis:	81 dB (Pink noise total 1W/4 Meters)
Maximum sound pressure level:	98 dB (Pink noise total 50W/4 Meters)

- **2-way high-power column loudspeaker system loaded with 8 x 3“ neodymium transducers**
- **passive crossover network unit**
- **Highest sound pressures even at very small dimensions**
- **Perfect sound in acoustically challenging areas**
- **Perfect speech intelligibility in reverberant room**
- **Integrated power switch (50 / 25 / 12,5 / 6,25 W)**

The ITEC NeodymLine 8 is a 2-way high-power passive column loudspeaker system with best performance in respect of speech intelligibility and music reproduction in difficult conditions.
Due to the placement of the 8x3“ nodymium transducers and frequency crossover, the vertical pattern is perfect even for reverberant rooms - less reflections onto ceilings.
Developed for areas of public life, where security is the highest bid Certified quality assurance ensuring consistent performance at continuous operation for decades. The optical integration of the NeodymLine - Series is very simply, because of the slim and elegant design. The build in 50 VA Tranformer provides high quality audio performance.

Fields of application: airports, railway stations, malls, industrial buildings, architetural buildings (glass), house of worship, conference rooms, historical building, etc.

Acoustical measurement enviroment:	free field

Frequency response for each stated reference axis:
(Sensitivity 100Hz-10kHz 1/3 Oct. Pink noise total 1W/4 Meters)

frequency	dB	frequency	dB	frequency	dB
100 Hz	59	125 Hz	57	160 Hz	67
200 Hz	65	250 Hz	70	315 Hz	70
400 Hz	70	500 Hz	69	630 Hz	66
800 Hz	68	1000 Hz	69	1250 Hz	68
1600 Hz	68	2000 Hz	69	2500 Hz	69
3150 Hz	67	4000 Hz	66	5000 Hz	63
6300 Hz	64	8000 Hz	66	10000 Hz	67

Horizontal / Vertical coverage angles:

frequency	horizontal	vertical
500 Hz	360	71
1 kHz	316	47
2 kHz	168	28
4 kHz	185	16

Rated impedance for each tapping:

Power	Impedance
50 W	200 Ω
25 W	400 Ω
12,5 W	800 Ω
6,25 W	1600 Ω

Mounting accessories

Mounting bracket standard (short)
Dimensions: 9 x 6.5 cm

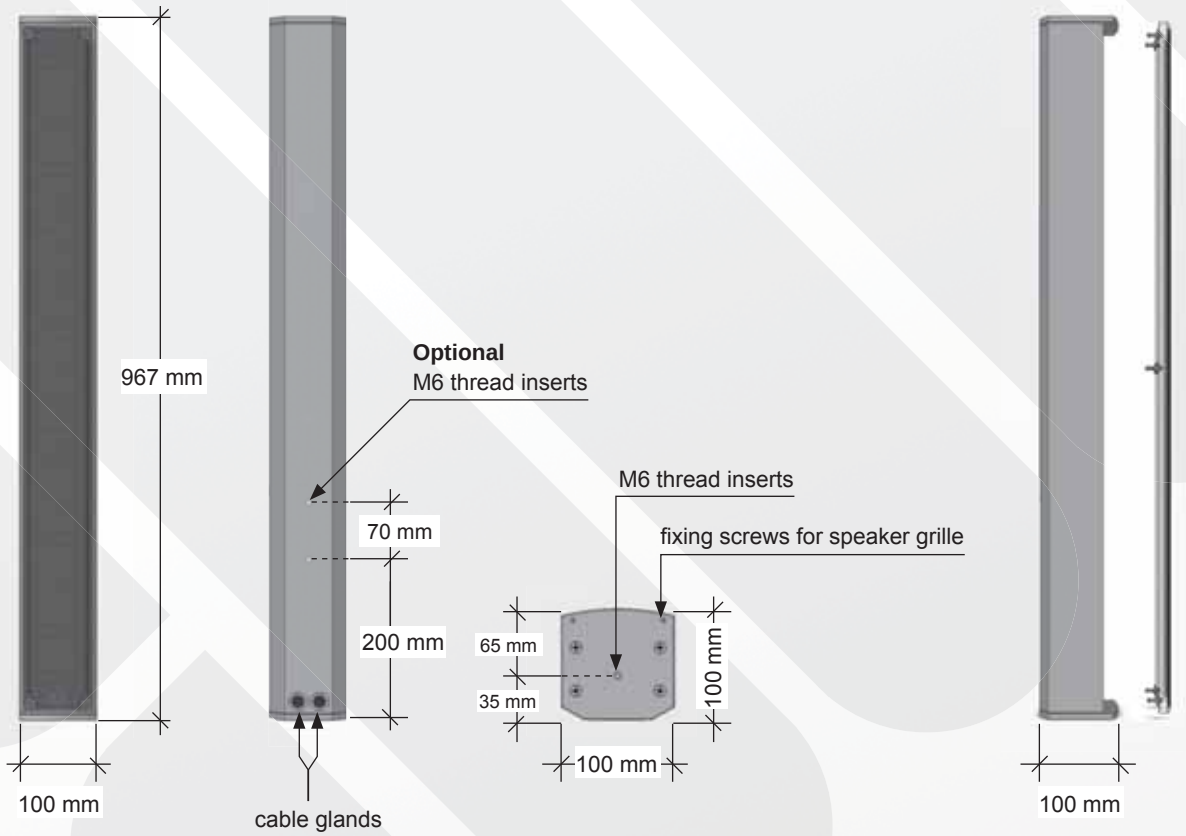
Mounting bracket long (optional)
Allows greater tilt of the sound column; Dimensions: 18.5 x 13.5 cm

Swing & tilt mounting (optional)
black/white

Terminal

Terminal (standard)
Connection terminal covered by metal plate (Ceramic Terminal + thermal fuse) incl. cable entry clamp with stress relief

Ceramic terminal (optional)



Installation, Operation, Maintenance

To avoid injury or damage, always make sure to mount the speakers securely.
Make sure that all amplifiers are switched of and all controls are turned down before connecting the speaker systems.
Please pay attention on the connection to the transformer board and make sure that the polarity of the speakers is correct (also at the amplifier).
After connecting all systems cross-check the wiring with a phase checker. Make sure that the rated sum power of the speakers do not exceed the output power of the 100 V amplifier!
Do not open the loudspeaker during operation.

Fix the rigid or swing and tilt bracket onto wanted position.
Unscrew the 4 fixing screws of the speaker grille, on the top and bottom lid and remove the grille.
Remove the metal plate, which is covering the connection terminal (2 screws).
Lead cable trough the cable gland and connect to terminal (50/25/12,5/6,25 W).
Fasten the connection terminal cover and fix the speaker with two M6 scews into the thread inserts. Screw in the 4 fixing scews for the speaker grille.
For optimum performance, always use the correct voltage, power and operate within the frequency limits as specified.

Subject to technical changes

ITEC- Tontechnik und Industrieelektronik GesmbH, A-8200 Lassnitzthal 300 / Austria / Europe
Tel.: +43 (0)3133 / 3780-0, office@itec-audio.com, www.itec-audio.com