



RL 180 NT EVAC EN 54-24 Directional Speaker for Voice Alarm Systems



Description

The RL 180 NT EVAC is a EN 54-24 certified 2-way speaker that is designed to be suspended from ceilings in rooms with long reverberation times. The proven Polar® technology produces a consistently wide dispersion angle at medium and high frequencies. The cardioid pattern effectively suppresses disruptive sound reflections from the ceiling by minimizing the amount of sound emitted backwards at low frequencies.

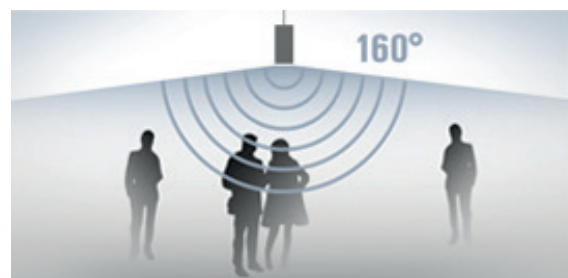
As such, a small number of RL 180 NT EVAC speakers can be used to transmit speech very evenly and clearly, even in acoustically challenging rooms.

Key Features

- 2-way system with Polar® technology
- Certified to the European Standard EN 54-24:2008 Loudspeaker for voice alarm systems, for fire detection and fire alarm systems, Typ A. (Indoor applications)
- 160° nominal dispersion
- Perfect sound distribution with a small number of speakers
- High efficiency
- 6.5" driver + 1" dome tweeter
- 100 V 30/15/7.5 watts
- Standard finish: white and black

Fields of Application

- Conference rooms
- Exhibitions, trade fairs
- Gastronomy
- Large rooms, halls
- Museums
- Shops, sales rooms



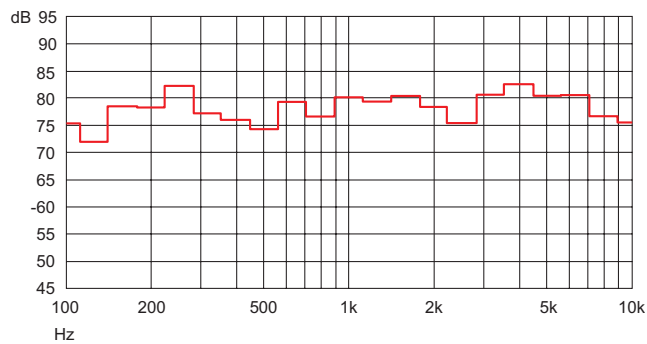
Dispersion characteristics

RL 180 NT EVAC

EN 54-24 Directional Speaker for Voice Alarm Systems

Technical Data

	Certified to the European Standard EN 54-24:2008 Loudspeaker for voice alarm systems, for fire detection and fire alarm systems, No. 1293-CPR-0695
	Principle
Speaker components	6,5" low-mid driver, 1" dome tweeter with Polar® wave guide
Sensitivity (1 W / 4 m)	77 dB
Maximum SPL (30 W / 4 m)	94 dB
Frequency response for each stated reference axis:	Sensitivity 100 Hz – 10kHz 1/3 Oct. Pink noise total 1W/4m



Frequency	dB	Frequency	dB	Frequency	dB
100 Hz	61.50	500 Hz	60.51	2500 Hz	61.56
125 Hz	58.13	630 Hz	65.51	3150 Hz	66.85
160 Hz	64.78	800 Hz	62.72	4000 Hz	68.69
200 Hz	64.43	1000 Hz	66.32	5000 Hz	66.62
250 Hz	68.42	1250 Hz	65.44	6300 Hz	66.76
315 Hz	63.34	1600 Hz	66.53	8000 Hz	62.85
400 Hz	62.08	2000 Hz	64.50	10000 Hz	61.66

Coverage (vertical and horizontal) according to EN 54-24	
500 Hz:	360°
1 kHz:	150°
2 kHz:	112°
4 kHz:	114°
8 kHz:	110°
Rated noise power	30 Wrms (30 W tap)
Rated noise voltage	100 Vrms
Transformer taps	30/15/7.5 watts
Rated impedance	
30 W tap:	240 Ω
15 W tap:	480 Ω
7.5 W tap:	960 Ω

Notes

- The design and specifications are subject to change without notice for improvement.
- The Specifications data was measured according to EN 54-24.
- Reference axis: Axis is on the center of grill surface and perpendicular to the grill surface.

Environment type	Type A (indoor applications)
Cable gland	PG 11, maximum cable diameter 10 mm
Temperatur range	-10 to 50 °C
Dimensions	Diameter 180 mm, depth 280 mm
Weight	4.3 kg
Enclosure material	Enclosure: Aluminium, power-coated Front grille: perforated steel mesh, powder-coated
Mounting points	Suspension point at rear M 8 with eye bolt, threaded insert M 10 laterally for optional wall mount WH 180
Standard colors	White RAL 9016 or Black RAL 9005
Accessories	WH 180 wall bracket, White or Black order separately)
Warranty	5 years

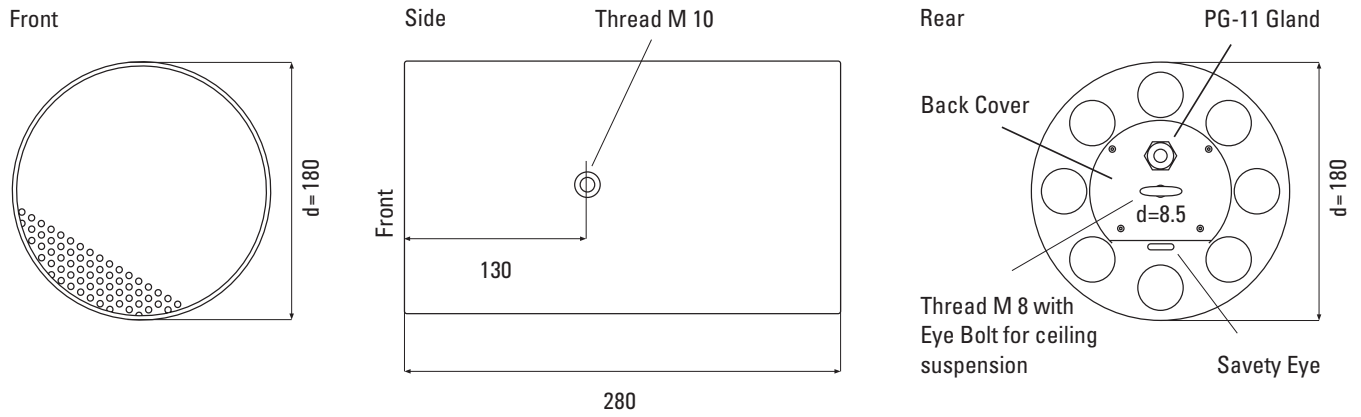
Modell	Order-No.	Version
RL 180 NT EVAC White	0904-0001	RAL 9016
RL 180 NT EVAC Black	0904-0002	RAL 9005

Other colours and models on request

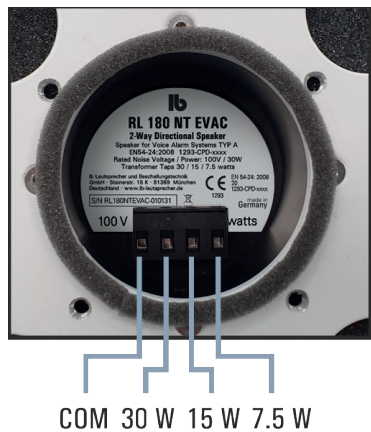
Accessories	Order-No.	Version
<p>WH 180 White</p>	7109-0006	L-braket with assembly plate, rotatable/pivotable, incl. safety rope, RAL 9016
<p>WH 180 Black</p>	7109-0007	L-braket with assembly plate, rotatable/pivotable, incl. safety rope, RAL 9005
<p>SR 300-16</p>	7109-0008	Stainless steel rope for pendant mounting, length 3 m, thickness 1.6 mm, one side with loop

RL 180 NT EVAC EN 54-24 Directional Speaker for Voice Alarm Systems

Dimensions



Power Setting and Wiring

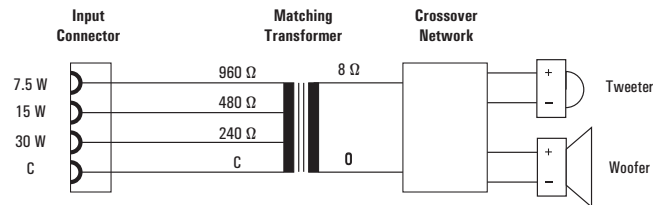


Connector on the rear (with back cover removed)

The RL 180 NT EVAC comprises a 4-pole plug to select the speaker power. Use COM and one of the 3 taps to connect the speaker to the speaker line.



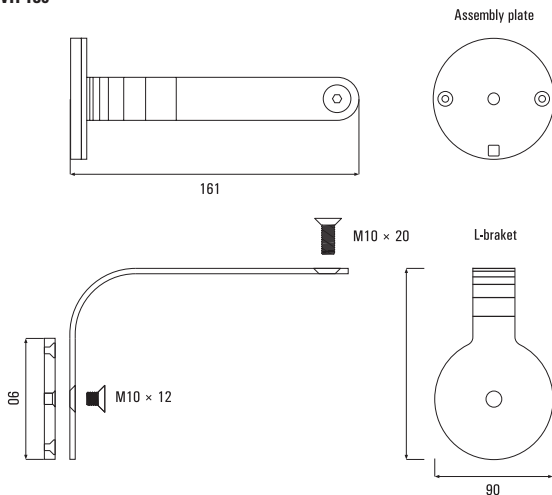
Eye bolt M8 for ceiling suspension (included)



RL 180 NT EVAC Wiring Diagram

Dimensions Wall Mount

WH 180



RL 180 NT EVAC without grille