



## Loudspeaker Modules Series WSLM 56, Series WSLM 52

Active loudspeaker modules for applications in loud areas. The modules can be mounted above, below or next to WS-stations or can be positioned freely in the room. If the modules are mounted at a greater height, they can optimally address large rooms or outside areas.

The non-metallic modules are protected against dirt, dust and spray water – IP 65 protection classification.

The vandal protected modules are protected with a 3 mm stainless steel front panel, special screws and rugged construction – IP 65 and IK 09 protection classification.

1. **WSLM 56P**  
Active loudspeaker module with impedance  $6 \times 8 \Omega$ , output power 6 W, 3 x 2.5 W class D amplifier, IP 65 protection classification, polycarbonate construction.
2. **WSLM 56F**  
Active loudspeaker module like WSLM 56P but additionally with protective foil.
3. **WSLM 56V**  
Active loudspeaker module like WSLM 56P but with stainless steel front panel and additionally IK 09 protection classification.
4. **WSLM 52P**  
Active loudspeaker module with impedance  $2 \times 8 \Omega$ , output power 2 W, 2.5 W class D amplifier, IP 65 protection classification, polycarbonate construction.
5. **WSLM 52F**  
Active loudspeaker module like WSLM 52P but additionally with protective foil.
6. **WSLM 52V**  
Active loudspeaker module like WSLM 52P but with stainless steel front panel and additionally IK 09 protection classification.

# Technical Data – Benefits

## TECHNICAL DATA

IP rating:	IP 65
Mechanical impact resistance acc. EN 62262:	<i>only WSLM 5xV: IK 09</i>
Front panel:	<i>WSLM 5xP: Polycarbonate</i> <i>WSLM 5xF: Polycarbonate with protective foil</i> <i>WSLM 5xV: Stainless steel, 3 mm (0.12 in)</i>
Operating temperature range:	<i>WSLM 5xF: -20° C to +60° C</i> <i>(-4° F to 140° F)</i> <i>WSLM 5xP / WSLM 5xV: -20° C to +70° C</i> <i>(-4° F to 158° F)</i>
Storage temperature range:	<i>WSLM 5xF: -20° C to +60° C</i> <i>(-4° F to 140° F)</i> <i>WSLM 5xP / WSLM 5xV: -20° C to +70° C</i> <i>(-4° F to 158° F)</i>
Relative humidity:	up to 95% not condensing
Inputs:	Input impedance: > 10 kΩ Mute input: Active Low Input voltage: 850 mV
Connection:	4 wires to pluggable screw terminals to Intercom station (when in use of MUTE-function)
Colours WSLM 5xP/WSLM 5xF:	front panel: light-grey (like RAL 7035) front panel frame: graphite-grey (like RAL 7024)

## SERIES WSLM 56

Loudspeaker:	Special membrane type for optimal sound quality, 6x8 Ω
Sound pressure:	max. 108 dB
Output power:	6 W
Amplifier:	3 x 2.5 W Class D
Power supply:	external power supply 12–24 VAC/10 VA or 15–35 VDC/10 W
Mounting:	<i>WSLM 56P / WSLM 56F:</i> flush mount kit WSFB 50P / surface mount kit WSSH 50P <i>WSLM 56V:</i> flush mount kit WSFB 50V / surface mount kit WSSH 50V
Measurements:	<i>WSLM 56P / WSLM 56F:</i> with flush mount kit: B 165 mm (6.5 in), H 280 mm (11 in), T 13 mm (0.5 in) with surface mount kit: B 165 mm (6.5 in), H 280 mm (11 in), T 51 mm (2 in) <i>WSLM 56V: with flush mount kit:</i> B 164 mm (6.45 in), H 279 mm (10.98 in), T 14 mm (0.55 in) with surface mount kit: B 164 mm (6.45 in), H 279 mm (10.98 in), T 50 mm (1.97 in)
Weight incl. package:	<i>WSLM 56V: approx. 1500 g (3.3 lbs)</i> <i>WSLM 56P / WSLM 56F: approx. 590 g (1.3 lbs)</i>

## SERIES WSLM 52

Loudspeaker:	Special membrane type for optimal sound quality, 2x8 Ω
Sound pressure:	max. 100 dB
Output power:	2 W
Amplifier:	2.5 W Class D
Power supply:	external power supply 12–24 VAC/3 VA or 15–35 VDC/3 W
Mounting:	<i>WSLM 52P / WSLM 52F:</i> flush mount kit WSFB 52P / surface mount kit WSSH 52P <i>WSLM 52V:</i> flush mount kit WSFB 52V / surface mount kit WSSH 52V
Measurements:	<i>WSLM 52P / WSLM 52F:</i> with flush mount kit: B 165 mm (6.5 in), H 140 mm (5.5 in), T 13 mm (0.5 in) with surface mount kit: B 165 mm (6.5 in), H 140 mm (5.5 in), T 51 mm (2 in) <i>WSLM 52V: with flush mount kit:</i> B 164 mm (6.45 in), H 139 mm (5.47 in), T 14 mm (0.55 in) with surface mount kit: B 164 mm (6.45 in), H 139 mm (5.47 in), T 50 mm (1.97 in)
Weight incl. package:	<i>WSLM 52V: approx. 695 g (1.53 lbs)</i> <i>WSLM 52P / WSLM 52F: approx. 250 g (0.55 lbs)</i>

## BENEFITS

- Vandal resistant or polycarbonate
- WSLM 56F/WSLM 52F:  
Dirt-repellent foil surface, resistant to cleaning agents and disinfectants
- Protection classification IP 65 (for WSLM 56V / WSLM 52V additionally IK 09)
- Integrated 2.5 W Class D amplifier
- Depending on version 2 W or 6 W output power
- Can be mounted above, below or next to WS-stations or can be positioned freely in the room

## SYSTEM REQUIREMENTS

- The loudspeaker modules can be combined with all digital and IP-stations of the WS series and with analogue stations of series WS 500 A and WS 800 A.
- The loudspeaker modules can also be used independently from WS stations as active loudspeaker.

## EXTENT OF SUPPLY

- Loudspeaker module
- Connection spacer
- *WSLM 52V / WSLM 56V: Mounting screws*
- Short reference

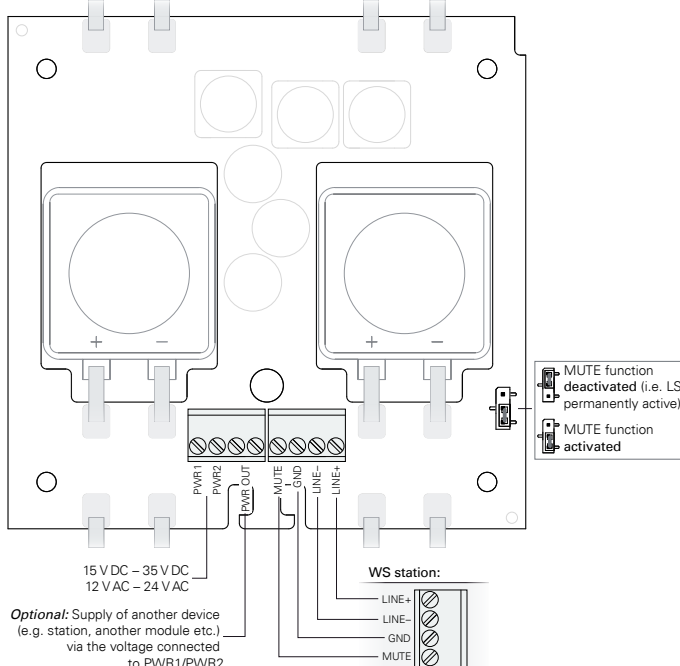


# Installation

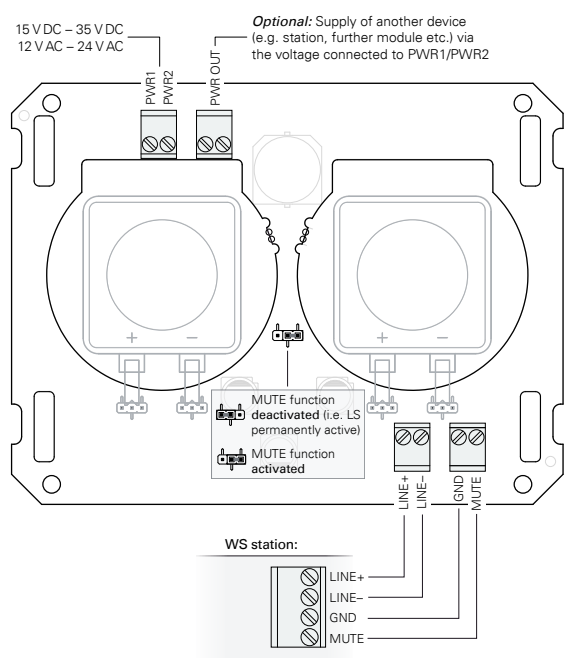
## PRECAUTIONS

- MUTE function only available in combination with IP- or digital WS stations!
  - MUTE = Muting of the loudspeaker if no conversation is active – provided that the MUTE output of the station is connected to the MUTE input of the WSLM 56/WSLM 52 (see below)!
- When opening the modules ESD precautions must be observed.
- The modules may only be opened by authorised service engineers.

### CONNECTION WSLM 56



### CONNECTION WSLM 52

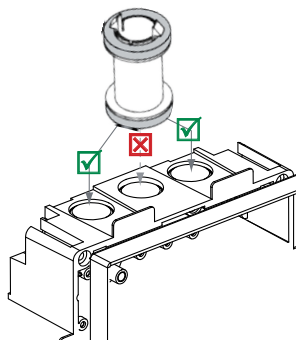


**Note:**

It is also possible to connect the loudspeaker modules directly to an AUD card or to the terminals C,D of an analogue subscriber.

### MOUNTING INSTRUCTIONS WSLM 56P/WSLM 56F

- When mounting the device directly to the top or bottom side of a WS station, the connection spacer in the extent of supply has to be mounted to the **outer** expansion openings of the flush/surface mount box – see illustration below.
- When in use of a surface mount box, make sure the connection spacer is **snaped-in** correctly in the expansion opening!

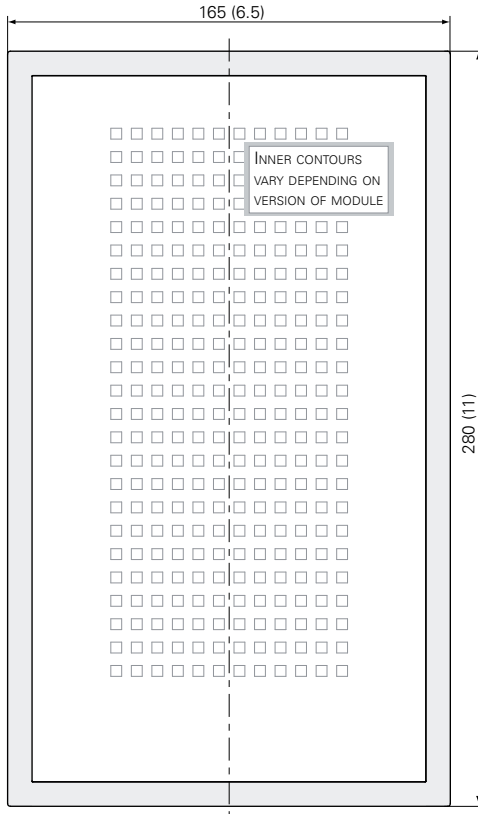


# Installation

## MEASUREMENTS WSLM 56P/WSLM 56F

Measurements in mm (inch), not scale!

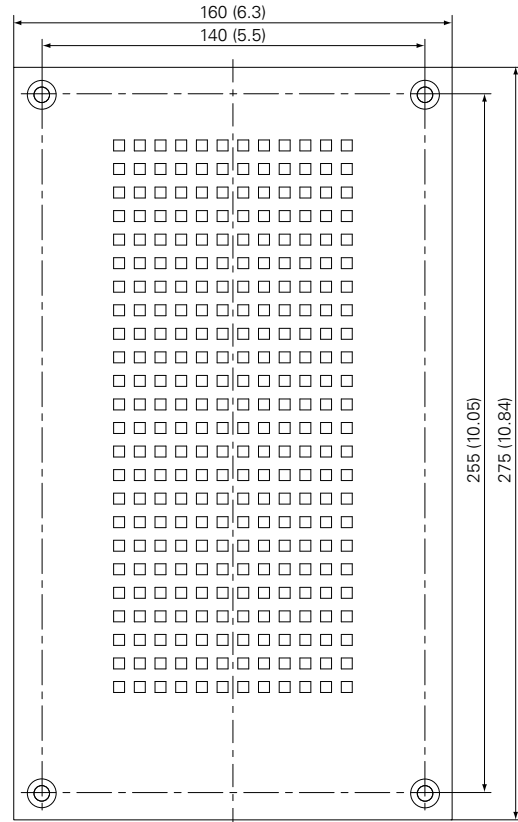
Depth: 13 (0.51)  
cavity wall mounting: 15 (0.59) (⇒ shadow gap between front panel & wall)



## MEASUREMENTS WSLM 56V

Front panel thickness: 3 mm (0.12")

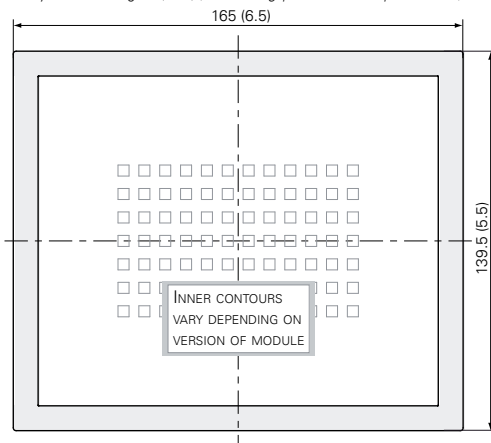
Measurements in mm (inch), not scale!



## MEASUREMENTS WSLM 52P/WSLM 52F

Measurements in mm (inch), not scale!

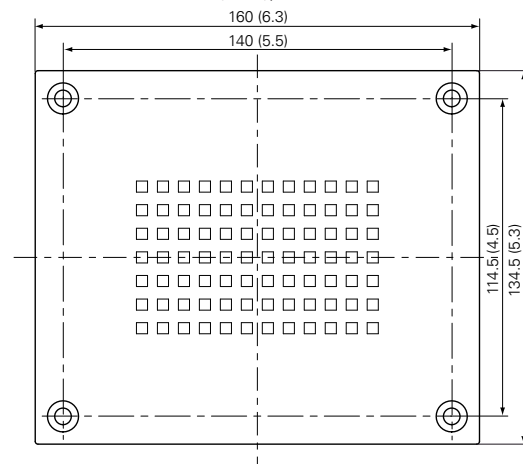
Depth: 13 (0.51)  
cavity wall mounting: 15 (0.59) (⇒ shadow gap between front panel & wall)



## MEASUREMENTS WSLM 52V

Front panel thickness: 3 mm (0.12")

Measurements in mm (inch), not scale!



## QUALITY TESTED. RELIABLE. SMART.

COMMEND products are developed and manufactured by Commend International in Salzburg, Austria.

The development and manufacturing processes are certified in accordance with **EN ISO 9001:2008**.

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