

MCR-SMSP20

EN 54-24

Sound Projectors

- ✓ Full compliance with EN 54-24 Standards
- ✓ Certificate of Conformity issued by ITB: 1488-CPD-0167/W



Fire alarm MCR-SMSP20 loudspeakers have been designed and manufactured for the most demanding customers as well as to meet the requirements of the most complex and sophisticated sound transmitting applications. Thanks to the contribution of advanced technologies they combine excellent acoustic parameters and high aesthetics with resistance to mechanical damages and varying weather conditions as well as low prices. Their additional quality is an exceptionally quick and simple installation.

Quality standards and audio characteristics have been confirmed through multiple tests and trials we have applied for many years, including e.g. our own echo-proof chamber, resistance and integrity testing equipment, as well as chambers for resistance to varying weather and air humidity testing. The need to maintain the best acoustic parameters was the idea underlying the design process.

MCR-SMSP20 series include loudspeaker models emitting the sound which features directional characteristic and high efficiency. 5-inch 2-cone wide band loudspeakers used in these series are excellent alternative solution for horn-type units due to wide frequency band. They prove excellent in both musical and verbal applications. Loudspeakers are enclosed in round casings made of polished extruded aluminium; they feature a high class of protection from humidity. Thanks to directional characteristic of sound propagation our loudspeakers are mostly applied on circulation routes and in wide area sound emission. Due to resistance to weather conditions the loudspeakers prove excellent in industrial halls, warehouses,

as well as partly open spaces exposed to outdoor weather conditions. Apart from high mechanical and functional resistance MCR-SMSP20 loudspeakers entirely comply with global requirements for systems, including also the British Standard No. BS5839 Part 8 and EN 54-24. They have been certified by ITB.

Technical solutions applied in the design ensure continuous operations of sound-transmitting line connected with the loudspeaker even in the case the latter is damaged or burnt as a result of fire. The said protection is composed of up to 650°C temperature-proof ceramic blocks installed inside the loudspeaker, internal fireproof wiring, and temperature limit fuse. Two sound-transmission cable penetrations in the casing are insulated by means of two rubber cable glands. Inside the fire zone the loudspeaker is isolated from the entire line, which ensures line continuity and uninterrupted broadcasting of fire escape messages. The individual power rating is selected by means of connection with applicable transformer branch.

All the MCR-S loudspeakers are designed for continuous operations at rated parameters for at least 100 hours in compliance with the IEC-268-5 Standard.

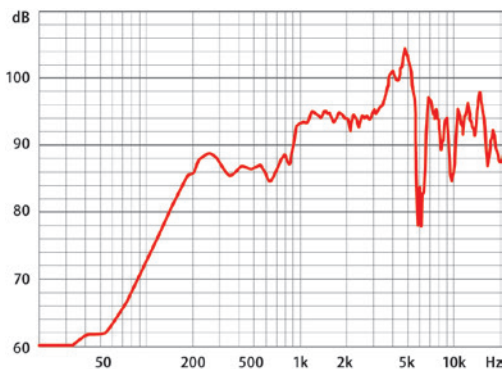
To be quite sure our loudspeakers comply with the highest quality standards we test them thoroughly following the most meticulous procedures that warrant excellent parameters of sound emission, safety and reliability.

- › **Designed to achieve directional characteristic of sound emission**
- › **20 W transformer with multiple branches ensuring accurate selection of output power**
- › **Enclosed in an advance and functional cylindrical casing made of extruded aluminium, available in silver – optionally in any colour according to the RAL Palette**
- › **Ideal for either ceiling or wall installation**
- › **Two gland-insulated penetrations for external cabling**
- › **Fireproof casing with ceramic block and temperature limit fuse**
- › **Fireproof internal wiring**
- › **High sound quality in music and speech emission**



	MCR-SMSP20
Electrical	
Rated power, W	20
Tappings 100V line, W	20 / 10 / 5 / 2,5
Transformer Impedance, Ω 100V	500 / 1000 / 2000 / 4000
Driver impedance, Ω	8
Effective Frequency Range, Hz	150 – 20000
Sensitivity @ 4 m, 1 W, dB	78
SPL @ 4 m, Rated power, dB	92
SPL @ 1 m, 1 W, dB, Test Signal Bandwidth 300 Hz – 6 kHz	92
SPL @ 1 m, Rated power, dB, Test Signal Bandwidth 300 Hz – 6 kHz	105
Dispersion at 500 Hz / 1 kHz / 2 kHz / 4 kHz, [°]	360 / 230 / 140 / 65
Environmental	
Environmental type / IP Rating according to EN 54-24	B / IP33C
IP Rating	66
Min / Max Amb Temp	-25°C / 70°C
Mechanical	
Dimensions, mm	Lenght 200, \varnothing 146
Net Weight, kg	2,5
Colour	Silver
Material	Aluminium
Mounting	Screw, U Type bracket
Option	
For DC line monitoring	Capacitor
Colour optional	RAL Palette
Ease Model	✓

Frequency band:



Circular chart of directional characteristic:

