

residual current circuit-breakers  
DFS 4 F Audio

Doepke

# Optimal sound quality with safety

- DFS Audio - silver-plated connection terminals and solid silver-plated conductors
- high-purity, low-oxygen copper and large switching contacts
- extremely low-impedance design makes inductive fractions ineffective
- residual current protection without any loss of sound



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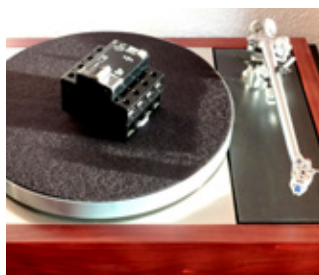
# For maximum listening enjoyment

**No compromise** ————— *Fans of premium audio systems take sound quality seriously. After all, the trained ear of a sound expert is able to detect even the slightest audio aberrations, even those that can hardly be measured with technical instruments. So owners of high-end audio equipment may notice interference or loss of sound quality in their systems when they use standard residual current circuit-breakers. Some even compromise on safety for the sake of sound quality by forgoing residual current circuit-breakers altogether in the circuit in which their audio system is connected. A highly risky decision!*

This is where the new DFS Audio comes in. HiFi fans no longer have to choose between safety and optimal sound quality – now they can have both:

the mixed frequency sensitive residual current circuit-breaker (RCCB type F) reliably protects people and electrical installations from dangerous residual currents and prevents loss of sound quality at the same time thanks to its special design.

**Protecting sound quality** ————— The DFS Audio is designed to provide an unrestricted flow of current for unhindered sound quality from the connected audio equipment. This is made possible thanks to its particularly high-quality components, such as solid silver-plated connection terminals for conductors up to 50 mm<sup>2</sup>, as well as solid silver-plated internal conductors made of high-purity, low-oxygen copper. Oxidation barely has a chance with this setup. Large switching contacts with high contact pressure and a summation current transformer designed as a push-through transformer ensure an extremely low-impedance design. Its special design also ensures that no undesirable inductive fractions become effective during normal operation.





hear it all while  
staying safe

**Protection of people and equipment** — The DFS Audio is a type F device that detects pulsating DC and AC residual currents as well as residual currents with mixed frequencies not equal to 50 Hz. It therefore reliably protects people and installations, even when state-of-the-art equipment is used: today's audio devices are equipped with transformers or combinatorial circuit components. Combinatorial circuit components can produce other strong deviating fractions – mixed frequencies – in the load current, in addition to the 50 Hz fraction. For the DFS Audio this is not a problem: in normal operation it withstands mixed frequency fractions and surge currents, and even with mixed frequency residual currents it reliably trips in the event of a fault.

**Optics** — The DFS Audio also meets high demands for purely aesthetic appeal: it comes in classy vinyl black with pearl-white lettering. The silver-plated connection terminals combined with gold-plated terminal screws not only provide optimal sound quality but also add to the sophisticated look of the device.

**Technology and applications** — The DFS Audio is available in a two or four-pole design with a rated residual current of 30 mA and rated currents up to 63 A. It protects personal audio equipment as well as premium sound systems in professional settings, such as theatres, cinemas and concert halls.



We are partner

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