

ACOUSTIC MESSAGES FOR MORE SAFETY

MULTI-SOUND-MODULE

OUTPUT OF

SOUNDS, MELODIES &
VOICE MESSAGES



- + LARGE SOUND LIBRARY
- + OPTIONAL WITH CAN INTERFACE
- + ROBUST HARDWARE





miunske
PLUS + POINTS
80 sounds
 are currently available
 in the sound library

MULTI-SOUND-MODULE

Acoustic messages for maximum safety with an increasing number of signal messages

With the Multi-Sound-Module, you can generate acoustic signals and even voice messages in the vehicle cabin, which can be heard clearly and unambiguously in a noisy working environment, even with a variety of different signal messages. This ensures more safety - and helps you to comply with legal regulations. Eight signals can be played from a library of 80 standard sounds at 4 different volume levels. As an option, the version with CAN interface allows parameterisation of up to 50 different signals/voice messages and infinitely variable volume control. If required, the range can be increased even further by controlling an external loudspeaker.

An additional advantage: the Multi-Sound-Module can be flexibly integrated, e. g. into the roof lining of the vehicle cabin. In this way, it can replace or support optical signalling. In both cases, the Multi-Sound-Module ensures a high level of safety in working environments with extreme environmental conditions (noise, poor visibility).



PRODUCT BENEFITS

- + increased safety by clear and unambiguous acoustic signals such as voice messages
- + high signal diversity (for version with CAN interface)
- + fast availability of new signals: parameterise the software yourself
- + robust hardware: waterproof housing (protection class IP67)
- + compatible for 12 V, 24 V vehicle electrical systems
- + design according to requirement profile

VARIANTS



MSM STANDARD
 with integrated loudspeaker and MOLEX connector



MSM BASIC
 with external loudspeaker and relay connection

- **signals und sounds:**
 - signal output as tone, noise, melody or voice message - in a wide range of variants
 - sound database with more than 80 standard sounds
 - customised signals can be integrated in WAVE format
 - total running time for all signals: 250 seconds
 - number of repetitions 1 - 255
- **8 digital inputs**
- **input** for connecting external sound sources (e. g. radio, MP3 player, smartphone)
- **volume control** in 4 levels
- **integration into the vehicle:** plug & play with waterproof Molex connector

OPTIONAL: CAN interface according to ISO 11898

- **6 digital inputs plus CAN interface:** high number of parameterisation options e. g. 5 different voice messages in 10 different languages
- **50 instead of only 8 tones**
- integration of functions for use in CAN networks, with protocols such as J1939 or CANopen, is possible via customised adaptations
- monitoring of device status and on-board voltage with output on the CAN bus

CUSTOMISATION OPTIONS

SOFTWARE INDIVIDUALISATION

Via the free parameterisation software 'miunske-toolchain' you can adjust the signalling exactly to your needs.

The following can be adjusted:

- type of signal (tone, noise, melody, voice message)
- signal output as analogue tone (e.g. indicator click-clack)
- prioritisation of the signal (which signal should be heard first if several messages are present in parallel?)
- volume - per triggering event
- mute function (muting)
- number of repetitions and corresponding pause times or endless loop



toolchain
by miunske

HARDWARE VARIANTS

- available with or without CAN interface
- housing
 - relay housing (MSM-Basic with external loudspeaker)
 - loudspeaker enclosure (MSM standard with integrated loudspeaker)
- individual branding via laser marking

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miunske GmbH

+49 35938 9800-0 • info@miunske.com

Oberlausitzer Strasse 28 • D-02692 Grosspostwitz

miunske.com

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