

CAN Multi-Sound-Module 12 / 24 V

order number: H2-0003-0001
version 1 of 06.10.2016

1. technical data

nominal voltage:	12 / 24 V
operating voltage:	9 ... 32 V
quiescent current standby mode:	2 / 4 mA
controller:	Freescale MC9S08DV32
CAN	2.0 A / B (ISO 11898)
• baud rate adjustable:	20 / 33,3 / 50 / 83,3 / 95,2 / 100 / 125 / 250 / 500 / 800 / 1000 kBit/s
• identifier:	11 Bit / 29 Bit
• transceiver:	TJA1040
inputs:	6 inputs (pull down) 1 line-in for external audio sources
frequency range of output:	250 Hz ... 10 kHz
max. minute memory:	4 minute
max. sound level:	95 db(A) (1kHz Sinus / 30 cm distance)
protection:	short circuit protected, line-in inputs 28 VDC max.
permissible ambient temperature:	- 40 °C to +85 °C
weight:	120 g
housing material:	PA6 GF15
plug-in system:	Molex MX150™, 12pos sealed
mating connector:	Molex SD-33472-121
mounting:	mounting bracket
special Features:	parameterizable over CAN with Toolchain and integrated sound library, usage as self powered speaker, one configurable flasher input with one sound for rising and falling edge, supply voltage monitored by warning sound



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2. functioning

Active CAN Multi-Sound-Module is used for acoustic signalling a variety of beeps and safety instructions.

6 digital inputs or CAN could be used for generating sounds.

One digital input can be parameterized as pulse input, with a separate sound for rising and falling edge.

all discretely controlled signals can be set as:

- sound
- volume
- priority
- note repetition / unique sound
- pause during repeated notes
- delay
- sound reproduction to the end in the absence of input level

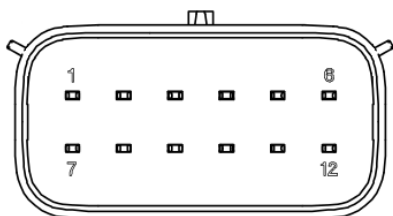
all digital inputs can be used as digital inputs by CAN.

all controlled by CAN signal can be set as:

- ID
- volume (at run time changeable)
- bit mask to enable / disable
- sound
- delay
- number of repetitions
- brake between repetitions
- sound reproduction to the end in the absence of input level
- priority
- lineIn
- mute
- idle bus
- sleep

A line-in input allows you to play an external audio source such as a MP3 player.

3. pin assignment



Pin 1 CAN-High
Pin 2 Kl. 30 / UBat +
Pin 3 Kl. 31 / GND -
Pin 4 Line in +
Pin 5 Line in -
Pin 6 Input 4

Pin 7 CAN-Low
Pin 8 Input 6
Pin 9 Input 5
Pin 10 Input 3
Pin 11 Input 1
Pin 12 Input 2

4. dimensions:

See appendix A : data sheet drawing