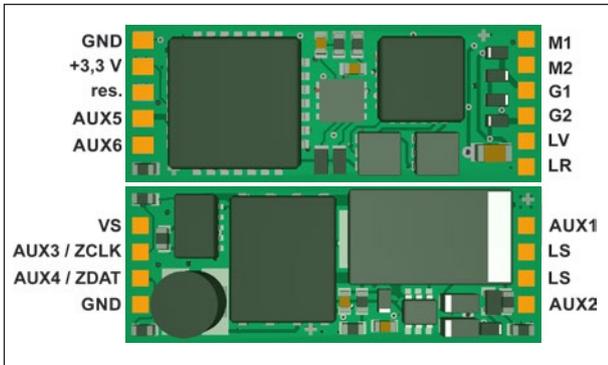




Doehler & Haass

# SD05A 2<sup>nd</sup> Generation



## Pin assignment

### Interface

- M1, M2**..... Motor connection 1, 2
- G1, G2**..... Track connection 1, 2
- LV, LR**..... Front light, rear light (each 150 mA)
- AUX1, AUX2**..... Additional function 1, 2 (each 300 mA)
- VS**..... Supply voltage (also for SUSI)
- ZCLK/AUX3**..... SUSI clock (or AUX3 unamplified) \*)
- ZDAT/AUX4**..... SUSI data (or AUX4 unamplified) \*)
- GND**..... Ground (0 V)
- LS**..... Speaker

### Five solder pads

- AUX5, AUX6**..... Unamplified function \*)
- res.**..... Please do not connect anything!
- +3,3 V**..... Electronic supply voltage (not for the user!)
- GND**..... Ground (0 V)

| Specifications (2 <sup>nd</sup> Generation)  | SD05A  |
|--|--|
| Dimensions [mm]  | 19,9 x 7,6 x 3,1   |
| <b>Driving characteristic values</b><br>Operating mode SX1, SX2, DCC, MM, DC-analog<br>Total load<br>Maximum motor current<br>Maximum operating voltage<br>2 Function outputs for light: LV, LR (dimnable)<br>2 Function outputs: AUX1, AUX2 (dimnable)<br>4 Function outputs: AUX3, AUX4, AUX5, AUX6)<br>With SUSI interface (if AUX3/AUX4 deactivated) | 0,5 A<br>0,5 A<br>30 V<br>each 150 mA<br>each 300 mA<br>unamplified<br>X |
| <b>Sound characteristic values</b><br>Abtastrate<br>Unabhängige Soundkanäle<br>Speichergröße<br>Speicherdauer<br>Maximale Ausgangsleistung   | 22 kHz<br>8<br>128 Megabits<br>bis zu 760 s<br>2,6/1,6 W (4/8 Ω)         |
| <b>Connecting options</b><br>Without connection wires<br>With ribbon cable for interface per NEM651<br>With connection wires   | SD05A-0<br>SD05A-1<br>SD05A-3  |

### \*) Unamplified function outputs

As in case the unamplified function outputs (logic level 0 V - 3,3 V, max. 2 mA) cannot switch greater loads, switching amplifiers (MOSFET, bipolar transistors or the like) must be provided for consumers, which either require a higher supply voltage (> 3,3 V) or a higher current (> 2 mA).

If necessary: Connect blue wire (common return conductor) to VS. You can connect a buffer capacitor to VS (+) and GND (-).

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