



PRODUCT INFORMATION

JA224A

Electronic buzzer
for up to 9 different tones

Multisystem locomotives are now used for cross-border services throughout Europe. One problem of their interoperability is the integration of different country specific train protection systems with their respective warning tones. It means that the driver's cab of a multisystem loco must be equipped with up to 9 different buzzers for cross-border service.

The solution is an all-in-one device: the Schaltbau buzzer JA224A.

Features:

- One device replacing up to 9 different buzzers
- All inputs optically isolated against each other
- Two modes of operation:
 - All tones prioritized
 - Combination: 3 inputs prioritized and 6 inputs mixed
- Output volume adjustable
- Download of customized tones from memory card*
- Test output of all 9 tones possible when retrofitting the locomotive

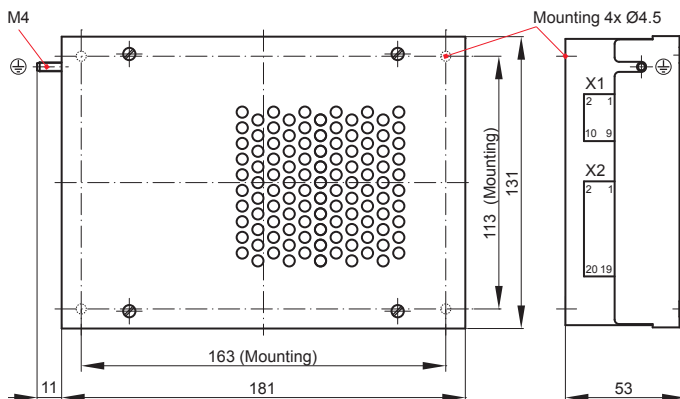
Standards:

- EN 50128 SSAS=2, EN 50155, EN 50121-3-2



Dimension diagram

Specifications (preliminary)



Nominal voltage U_n and input voltages	24 V DC ** JA224A-24 110 V DC ** JA224A-110
Rated operational current	500 mA @ $U_n = 24$ V DC
Inputs	9
Speaker Volume, adjustable Internal / external	80 ... 100 dB(A) @ 1 m distance • / optional
Temperature range	-25°C ... +60°C
Vibration, shock	IEC 61373
Degree of protection (IEC 60529)	IP20
Dimensions (L x W x H)	(181 x 131 x 53) mm
Weight	approx. 1080 g

* memory card with contents supplied by Schaltbau
** others on request

U_n	GND	Diag o.k.	Diag Error
x1 1	3	5	7
2	4	6	8
N.C.	Speaker +	Speaker -	Diag Cont

Tone 1+	Tone 2+	Tone 3+	Tone 4+	Tone 5+	Tone 6+	Tone 7+	Tone 8+	Tone 9+	Test +
x2 1	3	5	7	9	11	13	15	17	19
2	4	6	8	10	12	14	16	18	20
Tone 1-	Tone 2-	Tone 3-	Tone 4-	Tone 5-	Tone 6-	Tone 7-	Tone 8-	Tone 9-	Test -

Ordering code:

Example: **JA224A-24**

Series

JA224A Electronic Buzzer, 9 inputs

Nominal voltage

24 / 110 V DC

Dimensions in mm