

Assembly instructions for AC 300 / AC 300i EMCT Piezo Electronic Buzzer



- 1 Case
- 2 Distance rings
- 3 Jam nut
- 4 Faston terminal
- 5 Protective cap

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1 Introduction

1.1 Application

The AC 300 / AC 300i EMCT Piezo Electronic Buzzer is used in industrial and automotive applications. Depending on the type selected the piezo buzzer gives off a continuous or intermittent sound when connected to the power source.

- Protected against external voltage
- Front-Panel cutout: 25.5 mm
- Faston terminal 2.8 x 0.5 mm
- Explosion proof
- Generates no RF interference

1.2 Remarks

In this assembly instruction noted remarks:



Warning: Warns of a danger which could bring injuries.



Indication: Has to be considered!



Important: Important information!

1.3 Scope of delivery

Included in delivery is:

- 1x AC 300 / AC 300i EMCT Piezo Electronic Buzzer
- 2x Distance ring
- 1x Jam nut
- 1x Protective cap
- 1x Assembly instructions
- 1x EU-Declaration of Incorporation

2 Safety instructions



The remarks noted in this instruction manual are inevitable for a save application of the piezo buzzer. You are advised not to use the piezo buzzer before reading the safety instructions. Disobeying the instructions can result in injury!



The piezo buzzer has to be placed out of children's reach.



As soon as the piezo buzzer is connected, it gives off either a continuous or an intermittent sound with an SPL of 82 - 92 dB(a) at a distance of 60 cm. (The detailed information for each type is listed in 4)

3 Instruction

3.1 Assembly

The piezo buzzer is mounted as follows:

- If necessary you can put one or two distance rings on the thread.
- If the piezo buzzer is installed in a waterproof environment you can put an O-Ring (23.47 x 2.62 mm) on the thread.
- Put the piezo buzzer with the thread ahead trough the designated hole in the fastening plate.
- Fasten the piezo buzzer by screwing the jam nut from the exterior side on the thread.
- Insert two faston receptacles (e.g.: RSB 7990.001 F 2, 8-1) on the two faston terminals (2.8 x 0.5 mm).
- Mount the protective cap above the faston terminals.



The supplied protective cap must necessarily be mounted above the faston terminals after the piezo buzzer is connected with the faston receptacles.

4 Technical data

Operating temperature	-30°C to +75°C
Housing	PA Latamid 66 H2G/25VO
Weight	20 g
Permissible overvoltage	50 % of the rated voltage
Permissible humidity	90 %
Frequency	2900 Hz +/- 200 Hz
Protection class	IP64 (no tone when the resonance chamber is filled with water)
Front-Panel cutout	25,5 mm
Faston terminal	2,8 x 0,5 mm

Type	Voltage AC/DC	Current consumption	Sound level at 60 cm	Tone*	Remark
AC 300	12 – 36 V	8 – 12 mA	84 – 92 dB	1	
	36 – 70 V	6 – 11 mA	82 – 90 dB	1	
	70 – 120 V	7 – 11 mA	84 – 90 dB	1	For indoor use only (IP54)
	110 – 230 V	4 – 8 mA	82 – 90 dB	1	For indoor use only (IP54)
AC 300i	12 – 36 V	8 – 12 mA	84 – 92 dB	2	
	36 – 70 V	6 – 11 mA	82 – 90 dB	2	
	70 – 120 V	7 – 11 mA	84 – 90 dB	2	For indoor use only (IP54)
	110 – 230 V	4 – 8 mA	82 – 90 dB	2	For indoor use only (IP54)

*(1 = continuous; 2 = intermittent)

**Declaration of Incorporation
(Directive 2006/42/EU, Annex II B)**

The producer: EMCT Swiss-ConnTec SA, Grubenstrasse 7a, CH-3322 Schönbühl
herewith declares, that the following component:

EMCT Piezo Electronic Buzzer / AC 300 / AC 300i

is in conformity with the essential requirements of security and health of the machinery
directive 2006/42/EG Annex I.

The special technical documents as noted in annex VII section B have been created.

The component is in conformity with the following additional directives:

Low voltage directive 2014/35/EU

EMC directive 2014/30/EU

RoHS2 DIRECTIVE 2011/65/EU

The following harmonised standards were applied:

EN ISO 12100; EN 60204-1; EN 61000-6-2; EN 61000-6-4

Authorized representative for the composition of the technical documents:

**Christoph Mueller
Grubenstrasse 7a
CH-3322 Schönbühl**

According to the needs of a national agency the special technical documents will be
transmitted as an electronic file.

**Commissioning of the component is forbidden until the device is assembled as
indicated in the assembly instructions into a complete machine and this machine is in
conformity with the machinery directive and there is an EC declaration of conformity
according to annex II A available.**

Schönbühl, 21.01.2015

EMCT Swiss-ConnTec SA



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