

ZETFON 300/310 DC

The ZÖLLNER ZETFON 300/310 is a robust electrically operated whistle which is equally suitable for seagoing and inland vessels.

Essential information:

- » full compliance with the COLREGS 1972
- » type approved by all wellknown international authorities and classification societies
- » system voltage: 24 V DC
- » entirely made of best non-corrosion, seawater resistant materials

Application:

- » vessels of class III (20 m but less than 75 m in length)
- » land alarm, i.e. bunker stations, oil refineries, airports, power plants, factories

Options:

- » speaker function
- » body heating (50 W) for cold areas

Advantages:

- » maintenance free
- » decades of experience
- » best material and workmanship - made in Germany
- » control and amplifier unit with protection against cross-connection for supply voltage
- » low power consumption of 170 W

Sound Characteristics

- » broad frequency spectrum with many higher harmonics
- » signals with strong overtones for best penetration of background noise level: Even when a background noise covers the actual basic frequency the residual tone forms a parent frequency in the human hearing. Two or three harmonics are sufficient for the hearing to perceive the basic frequency.
- » sound frequency of 310 Hz very advantageously ranks in the lower admissible range (250-700 Hz)
- » sound pressure level 130 dB in 1/3rd octave band level at 1 m distance

Easy Installation:

- » only one two-core cable required for standard unit
- » low weight
- » easy exchange of all parts with onboard tools



Positioning and installation

Technical drawing of the ZETFON 300-310 DC control unit, showing dimensions and part lists.

Front View Dimensions:

- Overall width: 420 ± 3
- Overall height: 380 ± 12
- Mounting flange width: 145
- Mounting flange height: 246 ± 3
- Mounting flange outer diameter: $\varnothing 146$

Part List (Front View):

- 1x M24x1,5 $\varnothing 14-16,5$ mm
- 1x seating plug M16 $\varnothing 4,5-10$ mm

Side View Dimensions:

- Overall height: 280
- Overall width: 110

Detail View Dimensions:

- Top hole diameter: $\varnothing 12$
- Bottom hole diameter: $\varnothing 10$
- Top hole offset: 102
- Bottom hole offset: 200
- Bottom hole diameter: 50
- Thickness: $t \pm 6$

Bohrbild (bore hole diagram) Dimensions:

- Overall width: 180
- Overall height: 260
- Top hole diameter: $\varnothing 8$

Control Unit Dimensions:

- Overall width: 230
- Overall height: 280

Part List (Control Unit):

- 2x M25x1,5 $\varnothing 9-17$ mm
- 2x M20x1,5 $\varnothing 7-13$ mm

Control Unit Label:

Control Unit
ZETFON
300-310 DC

Option

Technical drawing of the optional cable control unit. The drawing includes a side view of the unit with a coiled cable and a top view of the mounting bracket. Dimensions are provided in millimeters: 45, 32, 42, 18, 13, 19.2, 12, and 4.5.

TYPE	SHIP LENGTH	VOLTAGE	FUNDAMENTAL FREQUENCY	SOUND INTENSITY IN 1/3RD-OCT. BAND LEVEL AT 1 M (MIN. 130 DB ACC. TO IMO)	TYPE APPROVAL	MAX INPUT WHEN SOUNDING	BODY HEATING (OPTION)	PROTECTION TYPE
300/310 DC	20-<75 m	24 V DC	310 Hz	130 dB	✓	170 W	50 W	IP 56