

SHIP'S WHISTLE ITES-MS AND ITAS

According to COLREGS - International Regulations for Preventing Collisions at Sea, 1972, each vessel of 12m or more in length shall be provided with a whistle - sound signalling appliance capable of producing sound characteristic, which is in accordance with technical specification of these Regulations. The ship's whistle is used for giving manoeuvring and warning signals and signals in restricted visibility, therefore it's often called "fog horn".

Annex III of COLREGS gives detailed technical specification of the whistle - frequencies, signal intensity, range of audibility, positioning etc. depending on ships's length. Overview is given in below table Table 1.1

Length of vessel (m)	Fundamental frequency (Hz)	min. 1/3-octave Sound Pressure level at 1 m (dB)	Audibility range (Nautical Miles)
>200	70 - 200	143	2
75 - 200	130 - 350	138	1,5
20 - 75	250 - 700	130	1
< 20	250 - 700	120	0,5

Table 1.1 COLREGS 1972, Technical details of Ship's whistles

INELTEH's ship's whistle range includes **electronic sirens type ITES-MS-120**, used for vessels less than 20 m in length and **electronic sirens type ITES-MS-130** and **air horn type ITAS**, used for vessels 20 - 75 m in length. Both, electronic and air sirens, are **type approved by CRS**.

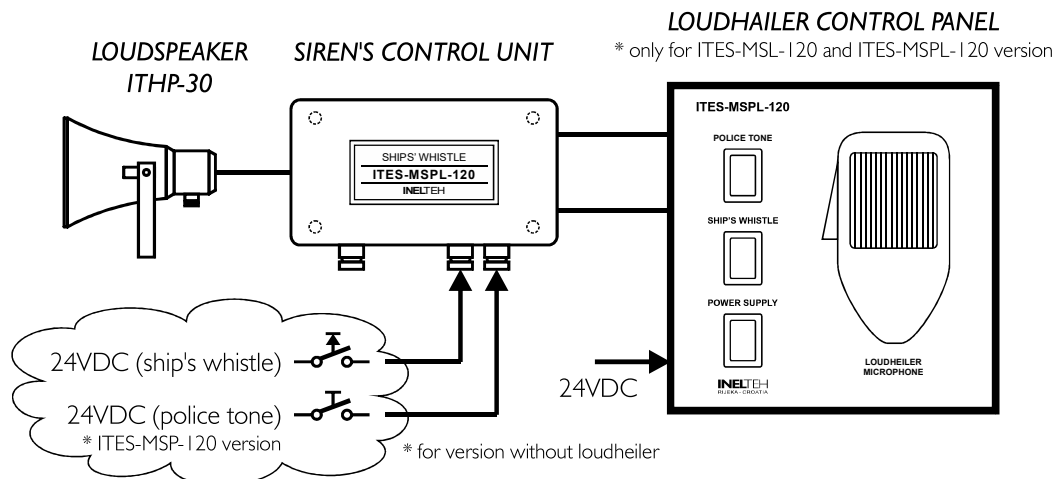
In addition to marine types, as a part of INELTEH's ship's whistle range, **electronic siren type ITES-MSR-120** has been developed, to be used for **inland waterways** vessels. The siren includes audible signalling in accordance with **CEVNI** (European code for Inland Waterways) and it is **type approved by CRS**.

Electronic sirens type ITES-MS-120

ITES-MS-120 series is specially designed for marine application. It is developed as a separate part of already proven ITES series of electronic sirens, which are used for more than 20 years, as a part of INELTEH's signalling system. With sound pressure level of 120dB and basic frequency of 685Hz, the siren meets IMO and COLREGS requirements for ships' whistle for vessels less than 20 m. Optional features like police tone and loudhailer give it a possibility to be used in different type of vessels and make it a perfect solution in wide range of applications.

For versions with loudhailer, loudhailer control panel (with microphone and siren's control buttons) is delivered additionally. Otherwise, the siren is activated by external push-buttons.

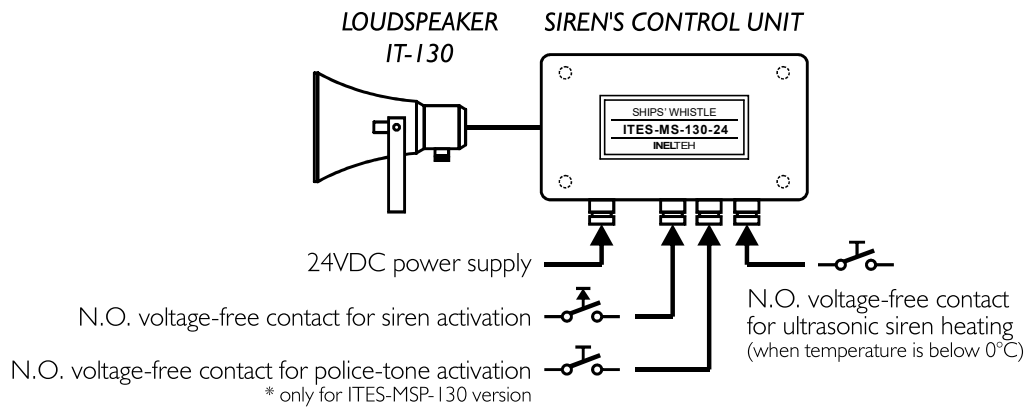
See block diagram drawing at Picture 1.1



Picture 1.1 Block diagram drawing for ITES-MS-120

Electronic sirens type ITES-MS-130

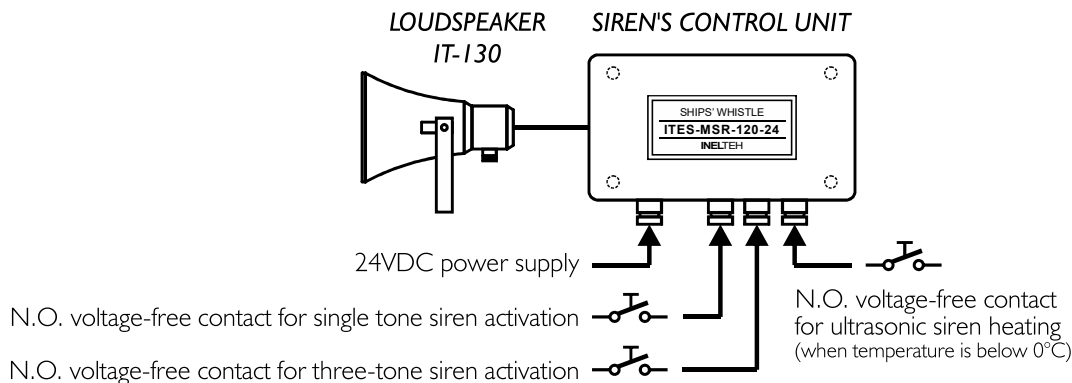
ITES-MS-130 series, with sound pressure level of 130dB and basic frequency of 697Hz, meets IMO and COLREGS requirements for ships' whistle for vessels 20-75 m in length. Optional features like police tone and loudhailer give it a possibility to be used in different type of vessels and make it a perfect solution in wide range of applications. See block diagram drawing at Picture 1.2



Picture 1.2 Block diagram drawing for ITES-MS-130

Electronic sirens type ITES-MSR-120

Electronic siren type ITES-MSR-120 has been developed as ship's whistle for inland waterways. With sound pressure level more than 120dB and possibility of single tone 238Hz and three-tone 230-261-294 Hz activation, it meets CEVNI requirements. Optionally, loudhailer option can be included. See block diagram drawing at Picture 1.3



Picture 1.3 Block diagram drawing for ITES-MSR-120

ORDERING INFORMATION

ITES - MS - 120 - 24	
Inelteh's electronic siren	Power supply** 24 = 24VDC / 115 = 115VAC / 230 = 230VAC
Basic type	
MS - marine siren / ship's whistle	
MSL - marine siren / ship's whistle with loudhailer (L)	
MSP - marine siren / ship's whistle with police tone (P)	
MSPL - marine siren / ship's whistle with police tone (P) and loudhailer (L)	
MSR - ship's whistle for inland waterways (rivers, lakes) (R)	Sound pressure level (dB)*
MSRL - ship's whistle for inland waterways (R) with loudhailer (L)	120 = 120dB (for ships LOA up to 20m and inland waterways) 130 = 130dB (for ships LOA 20-75m)

NOTES:

* Ship's whistle for inland waterways (ITES-MSR types) is available only in version 120dB

** Marine siren / ship's whistle with 130dB sound pressure (ITES-MS-130 types) and Ship's whistle for inland waterways (ITES-MSR types) are available only for 24VDC power supply. For 115V AC or 230V AC, use INELTEH power supply units type ITPS-SU-230-115/24.

Air horn type ITAS

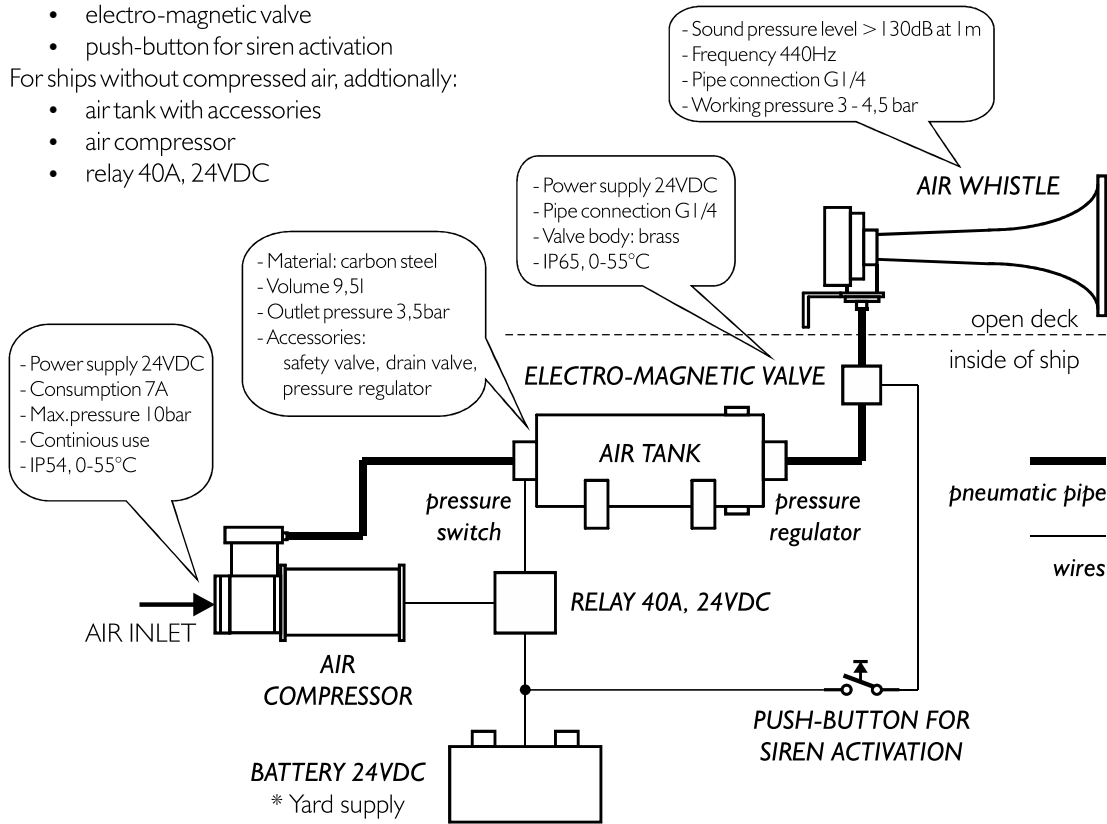
Air horn type **ITAS**, according to COLREGS, is used as ship's whistle for vessels 20 - 75 m in length.

For ships with compressed air on board (dry and clean instrument air, 3 - 4,5 bar), set includes:

- whistle with support
- electro-magnetic valve
- push-button for siren activation

For ships without compressed air, additionally:

- air tank with accessories
- air compressor
- relay 40A, 24VDC



Picture 2.1 Block diagram drawing for air horn type ITAS

For generating COLREGS signals, INELTEH's Signal controller type ITSC-01 can be ordered additionally.

ORDERING INFORMATION

