SIGNALIZATION SYSTEM

SIGNALIZATION SYSTEM is applied on board ships and particularly within the area of engine room, where requirements for several alarms signalization by visual and/or audible means exist. The SIGNALIZATION SYSTEM has been developed having in mind the basic idea of unifying all the alarms signalization within one common system.

THE NEW GENERATION OF LIGHT COLUMNS use LE diodes instead of incandescent lamps.

SIGNALIZATION SYSTEM meets requirements of IMO, ISO, SBG and all major classification societies.

WE ARE AT YOUR DISPOSAL to deliver each part of the system separately, to meet any modification and special requirement, to perform complete engineering.

LIGHT COLUMNS
- light columns (semaphores) for bulkhead mounting in engine room spaces
- up to 12 symbols
- with or without flashing lights
- with or without sirens / loudspeakers
- power supply 230VAC or 110VAC or 24VDC
- protection IP 54
- bulkhead mounting

EX SEMAPHORES
- our range of light columns (semaphores) also include versions for dangerous area where different number of symbols, sirens and/or flashing lights can be chosen

LIGHT PANEL
- light panel for mounting in Engine Control Room (ECR)
- from 2 up to 8 symbols
- lamp test incorporated
- audio signalization (buzzer) incorporated
- power supply 24VDC
- flush mounting (bulkhead on special request)
**CONTROL UNIT ITCU**
- signal processing
- double supply possibility (main and emergency) with automatic change-over
- comprise electronic units of sirens (if exist)
- bulkhead mounting or mounting within console

**ALARM INPUTS:**
- General Alarm
- Fire Alarm
- CO₂ release alarm or FOAM
- Machinery alarm
- DMA
- Telephone call alarm
- Telegraph alarm
- Bilge alarm

**ALARM OUTPUTS:**
- to semaphores
- to flashing lights
- to sirens

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**FLASHING LIGHTS**

**STANDARD FLASHING LIGHT ITFL**
- Power supply / consumption: 12VDC / 0.8A; 24VDC / 0.5A; 110VAC / 0.2A; 230VAC / 0.1A
- Approx. 60 flashes per minute
- Temperature range -20°C/+55°C
- Flashing energy 6J
- IP protection IP 54
- Weight approx. 0.27 kg
- Colours: red, amber, blue, green, white, green-white
- Steel support can be delivered (on request)

**EX-PROOF FLASHING LIGHT**
- Type: 6661 or CWB-ATEX or XB9
- Explosion protection: EEx de IIC T5/T6 (EEx d IIC T5/T6 for XB9)
- Power supply: 230VAC
- Consumption: 80mA (60mA for XB9)
- Flashing power 5J
- Primary fuse 0.20AT
- Protection IP 66
- Weight approx. 1.6 kg
- Colours: red, amber, blue, green

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**AUDIBLE SIGNALIZATION** (for detailed information see separate leaflet)

**PROGRAMMABLE ELECTRONIC MULTITONE SIRENS ITES-M...**
- wide range of two-inputs programmable sirens

**ELECTRONIC MULTITONE SIRENS ITES-M...**
- with one input
- 32 different tones

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**SIGNALLING UNITS**
- various signalling units for different alarm purposes
- different visual and audio alarms to suit your needs
ENGINE ROOM ALARM INDICATION SYSTEM BLOCK DIAGRAM (EXAMPLE)

6 pcs of ITS-07-ER-230-3FL-2S Light columns

1 pcs of ITS-07-CR Light panel

2 pcs of ITES-110-3 siren's electronic module

1 pcs of ITCU-7, 230V AC Control unit

PRINCIPLE OF OPERATION

LIGHT COLUMN DIMENSIONS

If ITES siren 115 or 120 dB is used, loudspeaker is mounted on the top.
**LIGHT COLUMNS DIMENSIONS**

<table>
<thead>
<tr>
<th>Number of symbols</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>335</td>
<td>470</td>
<td>-</td>
</tr>
<tr>
<td>4</td>
<td>335</td>
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</tr>
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<td>835</td>
<td>970</td>
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<td>1070</td>
<td>-</td>
</tr>
<tr>
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<tr>
<td>12</td>
<td>1135</td>
<td>1270</td>
<td>567.5</td>
</tr>
</tbody>
</table>

**LIGHT PANEL DIMENSIONS**

**LIGHT COLUMNS and LIGHT PANEL ORDERING INFORMATION**

- Inelteh’s semaphores
- Number of symbol fields
- ER - LIGHT COLUMN, bulkhead mounting (engine room)
- CR - LIGHT PANEL, flush mounting (engine control room)
- Power supply 230VAC / 110VAC / 24VDC

**FLASHING LIGHTS DIMENSIONS**

**STANDARD FLASHING LIGHTS**

**EX-PROOF FLASHING LIGHTS**

**FLASHING LIGHT ITFL ORDERING INFORMATION**

- Inelteh’s flashing light
- Power supply 230VAC / 110VAC / 24VDC / DC

All dimensions are in mm.

**CONTACT INFORMATION**

Ljubljanska cesta 7, HR-51000 Rijeka / Croatia / tel. ++385 51 274 536 / fax 712 122 / inelteh@inelteh.hr / www.inelteh.hr