



# **BS-531/1** SOUNDER WITH BEACON FOR FIRE DETECTION PANEL

TECHN	IICAL CHARACTERISTICS
OPERATION VOLTAGE	21-28V DC
MAXIMUM CONSUMPTION	1.2W
MAXIMUM SOUND OUTPUT in1m	94dB (sound effect 1)
BEACON	1 Power LED
TYPE OF APPLICATION ENVIRONMENT	Туре А
MOUNTING	Wall
COVERAGE (y)	6 m around the siren at an angle of 180°
MOUNTING HEIGHT (x)	2.4m max
COVERAGE VOLUME CODE	W-2.4-6
COVERAGE VOLUME	86.4m³ (max)
FLASH RATE	1 Hz (Switchable to 0.5 Hz)
FLASH COLOUR	Red
DEGREES OF COVER PROTECTION	IP42C
PRODUCED IN ACCORDANCE WITH	EN 54-3: 2001 +A1:2002 +A2:2006, EN 54-23: 2010
OPERATION TEMPERATURE RANGE	0 to 60 °C
RELATIVE HUMIDITY	Up to 95%
CONSTRUCTION MATERIAL	ABS/PC, PC
EXTERNAL DIMENSIONS	141 x 141 x 100 mm
TYPICAL WEIGHT	230gr.
GUARANTEE	2 years

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#### GENERAL

This device is Visual Alarm Devices (VAD) for fire detection panels that offer a strong sound output and an optical warning with a beacon. The strong sound and the optical warning beacon cover many square metres. It features two inputs (N1, N2) for the production of two different sounds. This device can co-operate with any fire detection panel (BSR-2104, BSR-2114, BS-1632, BS-1634, BS-1636, BS-636).

# Installation and Connection

**1.** First, remove the retaining screw, place a flat blade screwdriver in the holes of the plastic hooks and remove the plastic cover (Image 1 on page 2).

**2.** Remove carefully the beacon connector (Image 2 on page 2).

**3.** Use the supplied mounting parts to install the siren's base at a height of 2.4 metres from the floor (figure 1 on page 2). Place the plastic plugs and fasten the screws to the mounting holes. Attention!! Make sure that the siren's base is installed upwards as shown in figure on page 4.

**4.** Place the caps and make a hole in the center using a small screwdriver. Pass

through the caps the cables to connect the device.

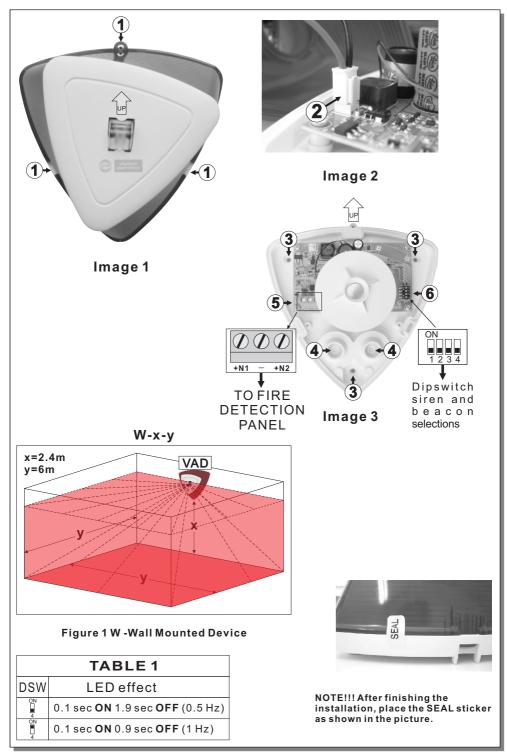
5. The (+N1 or the +N2) terminal block is connected to the (+) output of Alarm-1 or Alarm-2 of the panel and the (-) of the terminal block is connected to the (-) output of Alarm-1 or Alarm-2 of the panel. Accordingly connect in parallel all the sirens. (The maximum number of sirens depends on the type of the panel).

6. To select various **sound effects** use the dipswitch 1, 2 and 3 and choose the diserable sound effect, according to tables 2 and 3 on page 3.

7. For LED effect variation use the dipswitch 4 (Table 1) on page 2. On the last siren of the line, we must connect in parallel with its power cables, the terminal resistor that was removed from the alarm contacts of the panel.

8. Reinstall the beacon connector (step 2). Refit the plastic cover until the plastic hooks are securely attached (step 1) and fasten the retaining screw (torque 0.6Nm). <u>Attention!!</u> <u>Make sure that the siren's cover is installed in</u> the correct orientation.

9. Test the device after installation.



Fire Detection Panel connection to +N1Fire Detection Panel connection to +N1DSWNISound effectdB $MA$ $MA$ Sound effectBS5839-1:2002 - "evacuate" BS5839 Part 119889121 $MA$ 3From 1200Hz to 500Hz in 1secBS5839-1:2002 - "alert" BS5839 Part 119889422 $MA$ 3From 1200Hz to 500Hz in 1secBS5839-1:2002 - DIN - Tone DIN33404 Part 39022 $MA$ 3From 200Hz to 1200Hz to 55 sec OFFBS5839-1:2002 - DIN - Tone DIN33404 Part 39022 $MA$ 4800Hz of 1200Hz to 55 sec OFFBS5839-1:2002 - DIN - Tone DIN33404 Part 39022 $MA$ 5Intermittent 2850Hz (0.5 sec ON - 0.5 sec OFF)BS5839-1:2002 - DIN - Tone DIN33404 Part 39223 $MA$ 72850Hz (0.5 sec ON - 0.5 sec OFF)IS08201 High Frequency8224 $MA$ 72850Hz (0.5 sec ON - 0.5 sec OFF)IS08201 High frequency8224 $MA$ 72850Hz (0.5 sec ON - 0.5 sec OFF)IS08201 High tone - US Temporal Tone HF8327 $MA$ 72850Hz (0.5 sec ON - 0.5 sec OFF)IS08201 High tone - US Temporal Tone HF8327 $MA$ 72850Hz (0.5 sec ON - 0.5 sec OFF)IS08201 High tone - US Temporal Tone HF8327 $MA$ 899999922 $MA$ 999999922 $MA$ 999999 <td< th=""><th></th><th></th><th>TABLE</th><th>E2</th><th></th></td<>			TABLE	E2	
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0   70Hz continuous   BSS839-1:2002 - "evacuate" BSS839 Part 11988   91     1   70Hz (rsec ON - 1 sec OFF)   BSS839-1:2002 - "alert" BSS839 Part 11988   94     2   From 1200Hz to 500Hz in 1sec   BSS839-1:2002 - "alert" BSS839 Part 11988   94     3   From 500Hz to 1200Hz in 5.5 sec OFF   BSS839-1:2002 - PIN-Tone DIN33404 Part 3   90     4   BO0Hz 970Hz atternate at Hz   BSS839-1:2002 - DIN-Tone DIN33404 Part 3   90     5   Atternate at Hz   BSS839-1:2002 - DIN-Tone DIN33404 Part 3   90     6   BO0Hz 970Hz atternate at Hz   BSS839-1:2002   91     7   S050Hz (0.5 sec ON 970 Hz OFF x3 times +1.5 sec OFF   ISO8201 High Frequency   82     7   Z050Hz (0.5 sec ON 2360 Hz OFF x3 times +1.5 sec OFF   ISO8201 High tone - US Temporal Tone LF   82     7   Z050Hz (0.5 sec ON 2360 Hz OFF x3 times +1.5 sec OFF   ISO8201 High tone - US Temporal Tone LF   82     8   Disperiod   ISO8201 High tone - US Temporal Tone LF   82   82     9   Disperiod   ISO8201 High tone - US Temporal Tone LF   82   82     9   Dioptz (0.5 sec ON 2360 Hz OFF)   BSS	DSW		Sound effect		шA
1   970Hz (1sec ON - 1 sec OFF)   B55839-1:2002 - "elert" B55839 Part 11988   94     2   From 1200Hz to 500Hz in 1 sec   B55839-1:2002 - DIN - Tone DIN33404 Part 3   90     3   From 500Hz to 1200Hz in 3.5 sec - 0.5 sec OFF   NEN2575 (Netherlands)   87     4   B00Hz - 970Hz alternate at 1Hz   B55839-1:2002   91     5   Intermittent 2850Hz (0.5 sec ON 970 Hz OFF x3 times + 1.5 sec OFF)   IS08201 High Frequency   82     5   Intermittent 2850Hz (0.5 sec ON 970 Hz OFF x3 times + 1.5 sec OFF)   IS08201 High tone - US Temporal Tone LF   92     6   970Hz (0.5 sec ON 970 Hz OFF x3 times + 1.5 sec OFF)   IS08201 High tone - US Temporal Tone HF   83     7   2850Hz (0.5 sec ON 2850 Hz OFF x3 times + 1.5 sec OFF)   IS08201 High tone - US Temporal Tone HF   83     7   2850Hz (0.5 sec ON 2850 Hz OFF x3 times + 1.5 sec OFF)   IS08201 High tone - US Temporal Tone HF   83     8   PTONE   IS08201 High tree - US Temporal Tone HF   83     9   PTONE   IS08201 High tree - US Temporal Tone HF   83     9   PTONE in Tore - US Temporal Tone HF   83   84     1   PTONE in Tore - US Teo OFF	0N 12 3	0	970Hz continuous	S5839-1:2002 - ''evacuate'' BS5839 Part 1 1988	21
2   From 1200Hz to 500Hz in 1 sec   BSS 339-1:2002 - DIN - Tone DIN 33 40.4 Part 3   90     3   From 500Hz to 1200Hz in 3.5 sec - 0.5 sec OFF   NEN2575 (Netherlands)   87     4   B 00Hz - 970Hz alternate at 1Hz   NEN2575 (Netherlands)   87     5   Intermittent 2850Hz (0.5 sec OFF)   IS 05021 High Frequency   82     6   970Hz (0.5 sec ON 970 Hz OFF x3 times + 1.5 sec OFF)   IS 08201 High tone - US Temporal Tone LF   92     7   2850Hz (0.5 sec ON 2850 Hz OFF x3 times + 1.5 sec OFF)   IS 08201 High tone - US Temporal Tone LF   92     7   2850Hz (0.5 sec ON 2850 Hz OFF x3 times + 1.5 sec OFF)   IS 08201 High tone - US Temporal Tone LF   92     7   2850Hz (0.5 sec ON 2850 Hz OFF x3 times + 1.5 sec OFF)   IS 08201 High tone - US Temporal Tone LF   92     8   D   OPEC CON 2850 Hz OFF x3 times + 1.5 sec OFF   IS 0820 + 11088   94     9   D   OPEC CON 2850 Hz OFF x3 times + 1.5 sec OFF   IS 0820 + 11088   91     9   D   OPEC CON 2850 Hz OFF x3 times + 1.5 sec OFF   IS 0820 + 11088   91     10   D   NEN2555 (Netherlands)   IS 05839 + 11208   82		~			22
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4   B00H2-970Hz alternate at 1Hz   BS5839-1:2002   91     5   Internit 2850Hz (0.5 sec ON - 0.5 sec OFF)   IS08201 High Frequency   82     7   B70Hz (0.5 sec ON 970 Hz OFF x3 times +1.5 sec OFF)   IS08201 High tone - US Temporal Tone LF   92     7   Z850Hz (0.5 sec ON 2850 Hz OFF x3 times +1.5 sec OFF)   IS08201 High tone - US Temporal Tone LF   92     7   Z850Hz (0.5 sec ON 2850 Hz OFF x3 times +1.5 sec OFF)   IS08201 High tone - US Temporal Tone LF   92     7   Z850Hz (0.5 sec ON 2850 Hz OFF x3 times +1.5 sec OFF)   IS08201 High tone - US Temporal Tone LF   92     7   Z850Hz (0.5 sec ON 2850 Hz OFF x3 times +1.5 sec OFF)   IS08201 High trequency   84     8   From 500Hz (1 sec ON - 1 sec OFF)   IS0829-1:2002 - "alert" IB5839 Part 11988   94     9   P70Hz continuous   IS0829-1:2002 - "alert" IB5839 Part 11988   94     9   P70Hz continuous   IS0829-1:2002 - "alert" IB5839 Part 11988   94     9   P70Hz continuous   IS0829-1:2002 - "alert" IB5839 Part 11988   94     9   P70Hz continuous   IS0829-1:2002 - "alert" IB5839 Part 11988   94     9   P70Hz continuous	12 3	З	+		31
5   Intermittent2850Hz (0.5 sec ON - 0.5 sec OFF)   ISO8201 High Frequency   82     7   2850Hz (0.5 sec ON 970 Hz OFF x3 times +1.5 sec OFF)   ISO8201 High tone - US Temporal Tone LF   92     7   2850Hz (0.5 sec ON 2850 Hz OFF x3 times +1.5 sec OFF)   ISO8201 High tone - US Temporal Tone LF   83     7   2850Hz (0.5 sec ON 2850 Hz OFF x3 times +1.5 sec OFF)   ISO8201 High tone - US Temporal Tone LF   83     7   2850Hz (0.5 sec ON 2850 Hz OFF x3 times +1.5 sec OFF)   ISO8201 High tone - US Temporal Tone LF   83     10   7   7   7   7   7   7     11   970Hz (1 sec ON -1 sec OFF)   ISO8309 -1:2002 - "evacuate" BS5839 Part 11988   94   94     11   970Hz continuous   ISS8399-1:2002 - "evacuate" BS5839 Part 11988   94   94     12   Prom 500Hz to 1200Hz in 1 sec   ISS839-1:2002 - "evacuate" BS5839 Part 11988   94   94     13   From 500Hz to 1200Hz in 1 sec   ISS839-1:2002 - "evacuate" BS5839 Part 11988   94   94     14   Prom 500Hz to 1200Hz in 1 sec   ISS839-1:2002 - "evacuate" BS5839 Part 11988   94   94     15   From 1200Hz to 120		4			29
6   970Hz (0.5 sec ON 970 Hz OFF x3 times +1.5 sec OFF)   ISO8201 Low tone - US Temporal Tone LF   92     7   2850Hz (0.5 sec ON 2850 Hz OFF x3 times +1.5 sec OFF)   ISO8201 High tone - US Temporal Tone HF   83     7   2850Hz (0.5 sec ON 2850 Hz OFF x3 times +1.5 sec OFF)   ISO8201 High tone - US Temporal Tone HF   83     7 <b>TAL TAL TAL A</b> 8 <b>S S S</b> 9 <b>O O O O</b> 9 <b>O D D O O</b> 9 <b>O O O O O O</b> 10 <b>O O D D D O O</b> 11 <b>O O D D D O</b>	0N 123	5			27
7   2850Hz (0.5 sec ON 2850 Hz OFF x3 times +1.5 sec OFF)   ISO8201 High tone - US Temporal Tone HF   83     TARIE3     TARIE3     TARIE3     TARIE3     TARIE3     TARIE3     TARIE3     N   V     N   Sound effect   Tone in accordance to:   dB     0   970Hz (1 sec ON - 1 sec OFF)   B55839-1:2002 - "evacuate" B55839 Part 11988   94     1   970Hz continuous   B55839-1:2002 - "evacuate" B55839 Part 11988   94     1   970Hz continuous   B55839-1:2002 - "evacuate" B55839 Part 11988   94     1   970Hz continuous   B55839-1:2002 - "evacuate" B55839 Part 11988   94     1   970Hz continuous   B55839-1:2002 - "evacuate" B55839 Part 11988   94     1   970Hz continuous   B55839-1:2002 - "evacuate" B55839 Part 11988   94     1   970Hz continuous   B55839-1:2002 - "evacuate" B55839 Part 11988   94     1   100Hz continuous   B55839-1:2002 - 1012 Col 1033404 Part 3   90     1   100Hz cof	0N 123	9	970Hz (0.5 sec ON 970 Hz OFF x3 times +1.5 sec OFF)		24
TABLE 3   Fire Detection Panel connection +N2   Fire Detection Panel connection +N2   N V Tone in accordance to: dB   0 970Hz (1sec ON - 1 sec OFF) BS5839-1:2002 - "alert" BS5839 Part 11988 94   1 970Hz continuous BS5839-1:2002 - "evacuate" BS5839 Part 11988 94   2 From 500Hz to 1200Hz in 3.5 sec - 0.5 sec OFF NEN2575 (Netherlands) 87   3 From 1200Hz to 1200Hz in 1 sec NEN2575 (Netherlands) 87   4 Intermittent 2850Hz (0.5 sec ON - 0.5 sec OFF) NEN2575 (Netherlands) 87   5 800Hz - 970Hz alternate at 1Hz ISO8201 High Frequency 82   6 2850Hz (0.5 sec ON - 0.5 sec OFF) ISO8201 High frequency 87   7 970Hz (0.5 sec ON 2850 Hz OFF x3 times + 1.5 sec OFF) ISO8201 High tone - US Temporal Tone HF 83   7 970Hz (0.5 sec ON 370 Hz OFF x3 times + 1.5 sec OFF) ISO8201 Low tone - US Temporal Tone LF 92	0N 123	2	.5 s	- US Temporal Tone HF	27
Fire Detection Pane connection to +N2     Nr   Found effect   Tone in accordance to::   dB     0   970Hz (1 sec ON - 1 sec OFF)   BS5839-1:2002 - "alert" BS5839 Part 11988   94     1   970Hz continuous   BS5839-1:2002 - "evacuate" BS5839 Part 11988   94     2   From 500Hz to 1200Hz in 3:5 sec - 0.5 sec OFF   BS5839-1:2002 - "evacuate" BS5839 Part 11988   91     3   From 1200Hz to 1200Hz in 3:5 sec - 0.5 sec OFF   BS5839-1:2002 - "evacuate" BS5839 Part 11988   91     4   Intermittent 2850Hz (0.5 sec ON - 0.5 sec OFF)   BS5839-1:2002 - "lone DIN33404 Part 3   90     5   BOHz - 970Hz alternate at 1Hz   BS5839-1:2002 - DIN - Tone DIN33404 Part 3   90     6   Intermittent 2850Hz (0.5 sec ON - 0.5 sec OFF)   BS5839-1:2002 - DIN - Tone DIN33404 Part 3   90     6   BOHz - 970Hz alternate at 1Hz   BS5839-1:2002   BS5839-1:2002   91     7   900Hz - 070Hz alternate at 1Hz   BS5839-1:2002   BS5839-1:2002   91     7   970Hz (0.5 sec ON 2850 Hz OFF x3 times +1.5 sec OFF)   BS5839-1:2002   91   91     7   970Hz (0.5 sec ON 970 Hz OFF x3 times +1.5 sec OFF)   <			TABL	E3	
Nr   Tone in accordance to:   dB     0   970Hz (1 sec <b>ON</b> - 1 sec <b>OFF</b> )   BS5839-1:2002 - "alert" BS5839 Part 11988   94     1   970Hz (1 sec <b>ON</b> - 1 sec <b>OFF</b> )   BS5839-1:2002 - "alert" BS5839 Part 11988   94     2   From 500Hz to 1200Hz in 3.5 sec - 0.5 sec <b>OFF</b> NEN2575 (Netherlands)   87     3   From 500Hz to 1200Hz in 3.5 sec - 0.5 sec <b>OFF</b> NEN2575 (Netherlands)   87     4   Intermittat 2850Hz (0.5 sec <b>ON</b> -0.5 sec <b>OFF</b> )   BS5839-1:2002 - DIN - Tone DIN33404 Part 3   90     5   Intermittat 2850Hz (0.5 sec <b>ON</b> -0.5 sec <b>OFF</b> )   ISO8201 High Frequency   82   82     6   2850Hz (0.5 sec <b>ON</b> - 0.5 sec <b>OFF</b> )   ISO8201 High Frequency   82   82     6   2850Hz (0.5 sec <b>ON</b> - 0.5 sec <b>OFF</b> )   ISO8201 High frequency   82   82     7   OPT2 - 97 OHz alternate at 1Hz   ISO8201 High frequency   82   82     8   Intermittent 2850Hz (0.5 sec <b>ON</b> - 0.5 sec <b>OFF</b> )   ISO8201 High frequency   82   91     8   Intermittent 2850Hz (0.5 sec <b>ON</b> 2850 Hz 2002 Z ID N - 100 E UN Z ID N - 1			Fire Detection Panel		
0   970Hz (1 sec <b>ON</b> - 1 sec <b>OF</b> )   BS5839-1:2002 - "alert" BS5839 Part 11988   94     1   970Hz continuous   BS5839-1:2002 - "evacuate" BS5839 Part 11988   91     2   From 500Hz to 1200Hz in 3.5 sec - 0.5 sec <b>OF</b> NEN2575 (Netherlands)   87     3   From 1200Hz to 500Hz in 1 sec   BS5839-1:2002 - UN - Tone DIN33404 Part 3   90     4   Intermittent 2850Hz (0.5 sec <b>OF</b> BS5839-1:2002 - DIN - Tone DIN33404 Part 3   90     5   RobHz - 970Hz alternate at 1Hz   BS5839-1:2002 - DIN - Tone DIN33404 Part 3   90     6   2850Hz (0.5 sec <b>ON</b> - 0.5 sec <b>OF</b> ISO8201 High Frequency   82   82     6   2850Hz (0.5 sec <b>ON</b> - 0.5 sec <b>OF</b> ISO8201 High frequency   82   82     7   900Hz - 970Hz alternate at 1Hz   ISO8201 High tone - US Temporal Tone HF   83   91     7   970Hz (0.5 sec <b>ON</b> 2870 Hz <b>OFF</b> x3 times + 1.5 sec <b>OF</b> ISO8201 Low tone - US Temporal Tone LF   92	DSW		Sound effect		шA
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2 From 500Hz to 1200Hz in 3.5 sec - 0.5 sec <b>OFF</b> NEN2575 (Netherlands) 87   3 From 1200Hz to 500Hz in 1 sec BS5839-1:2002 - DIN - Tone DIN33404 Part 3 90   4 Intermittent 2850Hz (0.5 sec <b>ON</b> - 0.5 sec <b>OFF</b> ) ISO8201 High Frequency 82   5 800Hz - 970Hz alternate at 1Hz BS5839-1:2002 91   6 2850Hz (0.5 sec <b>ON</b> - 0.5 sec <b>OFF</b> ) ISO8201 High Frequency 82   7 970Hz (0.5 sec <b>ON</b> 20FF x3 times +1.5 sec <b>OFF</b> ) ISO8201 Ligh tone - US Temporal Tone HF 83		~	970Hz continuous		21
3 From 1200Hz to 500Hz in 1 sec BS5839-1:2002 - DIN - Tone DIN33404 Part 3 90   4 Intermittent 2850Hz (0.5 sec <b>ON</b> - 0.5 sec <b>OFF</b> ) ISO8201 High Frequency 82   5 800Hz - 970Hz alternate at 1Hz BS5839-1:2002 91   6 2850Hz (0.5 sec <b>ON</b> - 0.5 sec <b>OFF</b> x 3 times +1.5 sec <b>OFF</b> ) ISO8201 High frequency 82   7 970Hz (0.5 sec <b>ON</b> 970 Hz <b>OFF</b> x 3 times +1.5 sec <b>OFF</b> ) ISO8201 Low tone - US Temporal Tone HF 83	2 3 3	7	+		31
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7 970Hz (0.5 sec ON 970 Hz OFF x3 times +1.5 sec OFF) ISO8201 Low tone - US Temporal Tone LF 92	12 3	9	S		27
	123	7	ec ON 970 Hz OFF x3 times +1.5 sec OFF)		24

# WARRANTY

Olympia Electronics guarantees the quality, condition and operation of the goods. The period of warranty is specified in the official catalogue of Olympia Electronics and also in the technical leaflet, which accompanies each product. This warranty ceases to exist if the buyer does not follow the technical instructions included in official documents given by Olympia Electronics or if the buyer modifies the goods provided or has any repairs or re-setting done by a third party, unless Olympia Electronics has fully agreed to them in writing. Products that have been damaged can be returned to the premises of our company for repair or replacement, as long as the warranty period is valid. Olympia Electronics reserves the right to repair or to replace the returned goods and to or not charge the buyer depending on the reason of defection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

## HEAD OFFICE

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# Certification

The sounder with beacon BS-531/1 is certified from DEDAL. Also DEDAL controls the production under CPR number:

BS-531/1 SOUNDER WITH BEACON 1922 - CPR - 1785 EN-54-3: 2001 + A1:2002 + A2:2006 EN-54-23: 2010 KOLINDROS PIERIAS 60061 GREECE

