

## Test Report

No.: SCATR1108000227

Date: SEP 16, 2011

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BRIGADE ELECTRONICS PLC  
BRIGADE HOUSE, THE MILLS, STATION RD, SOUTH DARENTH, KENT, DA4 9BD

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description : ULTRASONIC DETECTION SYSTEM  
Style / Item No. : SS-4000W/CS-3000/SF-2000  
SGS Ref No. : GZES1107004693PF SHMR110705353  
Test Performed : Selected test(s) as requested by applicant  
Sample Receiving Date : JUL 01, 2011  
Test Performing Date : JUL 01, 2011 TO AUG 4, 2011  
Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of  
SGS-CSTC Co., Ltd.



Bob Chen  
Technical Support Manager

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### Test Results :

1. Test Item: IP6KX

Test Standard: ISO 20653

Test Condition:

The rigid test wire (diameter 1.0 mm, 100 mm long) is inserted through any opening of the enclosure with the force  $1N \pm 10\%$ .

The protection is satisfactory if the rigid test wire (diameter 1.0 mm, 100 mm long) may penetrate completely, but shall maintain a sufficient distance from hazardous parts.

Approximately 2 kg of test dust per m<sup>3</sup> chamber volume shall be filled in and kept in suspension during the test. 6s movement of the air/dust mixture, and 15 min break. 20 such cycles shall be performed.

The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.

Test result:

Pass.

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2.Test Item: IPX9K

Test Standard: ISO 20653

Test Condition:

Water Temperature: 85°C  
 Distance of nozzle to specimen: 150 mm  
 Water pressure: 10 MPa  
 Water Flow: 14 to 16L/min  
 Moving cycle: 5 cycle/minute  
 Jet position: 0° ,30° ,60° ,90° angle to each specimen  
 Jet Duration: 30 s  
 Nozzle type: 2506  
 Test water: service water  
 Test environment: 23 °C and 50 %RH

Test Result:

Sample style:SS-4000W	
Series No.	Function Checking
1#	Pass
2#	Pass
3#	Pass
4#	Pass
Sample style:CS-3000	
Series No.	Function Checking
1#	Pass
2#	Pass
3#	Pass
Sample style:ST-2000	
Series No.	Function Checking
1#	Pass
2#	Pass

Remark: 1.Each style of ultrasonic detection system has several radars

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