



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa03ATEX0675**

4 Equipment or Protective System: **WHIRLIGIG**

5 Manufacturer: **SYNATEL INSTRUMENTATION LTD**

6 Address: **Walsall Road, Norton Canes, Cannock, Staffordshire WS11 9TB**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa (2001) Ltd. Notified body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **03(C)0899**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 13463-1:2001 and EN13463-5:2003

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

⊕ II 1GD c 100°C (T_{amb} -15°C to 50°C)

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa (2001) Ltd. Customer Reference No. **1057**

Project File No. **03/0899**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

R S SINCLAIR

DIRECTOR

On behalf of

Baseefa (2001) Ltd.

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Schedule

14

Certificate Number Baseefa03ATEX0675

15 Description of Equipment or Protective System

The Synatel Whirligig is used to locate sensors that monitor the speed of rotating shafts in machinery.

The Whirligig consists of a flat plastic base plate, 204mm long. The plate is semi-circular at one end with a radius of 85mm, and its width reduces down to 40mm at the opposite end.

A shaft passes through the base plate at the centre of the semi-circle and is supported in a sealed stainless steel bearing located in a recess in the front of the plate.

A 70mm diameter thin walled plastic bobbin is mounted on the shaft with either 2, 4 or 8 metallic strips equally positioned on the outer circumference. The rotating bobbin is protected by a circular plastic cover that is secured to the base plate by 3 self tapping screws, providing ingress protection equivalent to at least IP40.

The end of the shaft passing through the base plate has a threaded portion to enable connection to the shaft of a machine.

There is a fabric strap at the end of the base plate that is used to prevent the plate from rotating.

An ATEX approved sensor device can be secured to the base plate of the Whirligig to monitor rotation of the shaft by detecting the metallic strips on the bobbin.

16 Report Number

03(C)0899

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Issue	Date	Description
A3-300420A	0	01/03/04	Whirligig enclosure detail
A4-15021A	0	04/12/03	ATEX Label