



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: **Baseefa04ATEX0079X**

4 Equipment or Protective System: **18mm SERIES PROXIMITY SWITCHES**

5 This certificate is held by: **BRAIME ELEVATOR COMPONENTS LTD**

6 Address: **Hunslet Road, Leeds. LS10 1JZ**

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. **03/1055**

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

EN 50014: 1997 + Amendments 1 & 2 **EN 50028: 1987 + Amendment 1**

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 2G EExm IIB T4 (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. **4341**

Project File No. **03/1055**

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.

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



13

Schedule

14

Certificate Number Baseefa04ATEX0079X

15 Description of Equipment or Protective System

The 18mm Range of Sensors are self contained sensors with a variety of different functions and circuit options contained within a 18mm diameter x 80mm long plastic moulded enclosure. The circuit is encapsulated within the enclosure using epoxy resin. The product type is identified in the series and code on the label. The outer surface of the tubular enclosure is threaded M18 x 1mm for a length of 57mm starting at the sensor end of the enclosure. Two plastic nuts are supplied to clamp the sensor in a mounting bracket. An integral 2 wire cable is provided for connection to a 24-240V AC or DC supply. The sensors may act as a switch with a maximum switching capacity of 200mA in which case they must be connected in series with a suitable load with the same voltage rating as the supply being used, which typically would be a relay.

Alternatively the sensors may be a 10-30V DC, 4 wire version which contains an output with a switching capacity of 100mA.

The maximum power supplied to the sensor circuit is controlled by a 63mA fuse and two parallel zener diodes rated at 7.5V. The normal operating voltage is 6.2V. The input supply is protected by a thermal fuse rated at 98°C.

The sensor is assessed as having an ingress protection rating equivalent to at least IP65.

Variation 0.1

These sensors are identical to those covered by Baseefa03ATEX0673X and coded Ex II 1D T100° -15°C to +50°C. When used in gas and dust atmospheres they may be marked:

Ex II 2G 1D EExm IIB T4 T100° -15°C to +50°C

16 Report Number

03(C)1055

17 Special Conditions for Safe Use

1. The supply circuit shall be protected by a 1500 Amp capable fuse.
2. These sensors are not suitable for mounting where they will be exposed to direct sunlight unless fitted with an auxiliary metal shield completely protecting the plastic enclosure from UV exposure.
3. When the sensor is moulded in opaque polycarbonate or opaque polyamide, it is only suitable for use in areas with a low risk of impact. When the sensor is moulded in clear polycarbonate it is suitable for use in areas with normal risk of impact.

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
A4-15063A	-	16-02-04	Label
Baseefa04ATEX0065X	-	25-03-04	18mm Sensor certificate

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Baseefa03ATEX0593X 20XX
Baseefa04ATEX0079X
II 2G 1D EE X m IIB T4 T100°C
Tamb -15°C to +50°C IP65
Refer to manual for
Installation Information

Made in England

CC
1180

SUPPLY: XXXXXXXX
SERIES: XXXXXXXX
CODE: XXXXXX

RECEIVED
12 MAR 2004



Baseefa
Certification
Schedule
Drawing

Baseefa04ATEX0079X
Lawrie

YEAR OF MANUFACTURE TO BE COMPLETED AFTER "20"

MATERIAL :- C.I.L.L. SYSTEMS LTD.
METALISED POLYESTER
SELF ADHESIVE CIL9200.

FILE	SUFFIX	Mod	ISSUE	ISSUE	ISSUE	ISSUE	ISSUE	ISSUE	ISSUE	ISSUE	THIRD ANGLE	DIMENSIONS IN MILLIMETRES	DESCRIPTION			
			1	2	3	4	5	6	7	18mm (GAS) APPROVAL LBL (BRAIME)			DATE	APPROVED		
													R.A.	R.A.S.	16-02-04	<i>[Signature]</i>
													R.A.	R.A.S.		