



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: ITS02ATEX2006
- 4. Equipment or Protective System: BA386 LED BEACON
- 5. Manufacturer: BEKA ASSOCIATES LIMITED
- 6. Address: Old Charlton Road, Hitchin, Herts, SG5 2DA
- 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. The ITS Testing and Certification Limited, notified body number 0359 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 Number: ITS Report Ref 01006218, dated March 2002

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

EN 50014: 1992, EN 50020: 1994

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 of the specified equipment or protective system. Further requirements of this Directive apply to the manufacture and supply of this equipment or protection system.
- 12. The marking of the equipment or protective system shall include the following:-

 $\langle \mathcal{E}_{\mathsf{X}} \rangle$

II 1 G, EEx ia IIC T4 (Tamb= -40°C to 60°C

ITS Testing & Certification Limited ITS House, Cleeve Road, Leatherhead, Surrey, KT22 7SB Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977

Deputy Certification Manager 27 March 2002

R M Adams

http://www.etlsemko.com/uk

Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA

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

Sheet 1 of 5



Schedule

- 14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS02ATEX2006
- 15. Description of Equipment or Protective System.

BA386 LED Beacon is designed to produce a visual warning in the hazardous area. The BA386 may come in red, green, amber, blue, white or special colour models.

The BA386 LED Beacon may alternatively be identified as an L101L-IS-C LED Beacon.

The BA386 comprises a three printed circuit boards one of which is potted within a plastic enclosure all housed within a two parts plastic enclosure, a translucent lens and a back box. The outside of the translucent lens is coated with a durable conductive coating.

The enclosure provides a Degree of Protection of at least IP20.

Intrinsic safety is assured by limitation of voltage, current and power, limitation of capacitance and infallible segregation.

The maximum intrinsically safe input parameters are as follows:

Power supply PL2 terminals 1 and 2

 $U_i = 28 \text{ V dc}$

 $I_i = 110 \text{ mA dc}$

 $P_i = 0.8W$

The equivalent parameters are:

 $C_i = 0$

 $L_i = 0$

ITS Testing & Certification Limited
ITS House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370977

http://www.etlsemko.com/uk

Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA

This Certificate is the property of ITS Testing and Certification Ltd and is subject to ITS Testing and Certification Conditions for Granting Certification

Sheet 2 of 5

ITS Intertek Testing Services

13. Schedule

14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS02ATEX2006

Optional Sounder PL2 terminals 3 and 4

 $U_0 = 28 \text{ V dc}$

Io = 110 mA dc

Po = 0.8 W

The equivalent parameters are:

 $C_i = 0$

 $L_i = 0$

Optional Alarm Accept Switch PL1 terminals 5 and 6

 $U_0 = 16.8 \text{ V dc}$

Io = 1.6 mA dc

Po = 7.0 mW

The equivalent parameters are:

 $C_i = 0$

 $L_i = 0$

- 16. Report No. ITS Report Ref 01006218.
- 17. SPECIAL CONDITIONS FOR SAFE USE None

ITS Testing & Certification Limited
ITS House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977
http://www.etlsemko.com/uk
Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA

This Certificate is the property of ITS Testing and Certification Ltd and is subject to ITS Testing and Certification Conditions for Granting Certification

Sheet 3 of 5

ITS Intertek Testing Services

13. Schedule

- 14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS02ATEX2006
- 18. Essential Health and Safety Requirements

Essential Health and Safety Requirements not covered by Standards listed at (9)				
Clause	Subject	Compliance		
1.01	Principal of integrated explosion protection	The equipment is designed to comply with the requirements of EN 50014 and EN 50020		
1.02	Analysis of possible operating faults	The equipment is designed to comply with failure modes specified in EN 50020		
1.0.3	Special checking and maintenance conditions	No special requirements		
1.0.6	Instructions	Instruction Manual provides all the information		
1.2.1	Design with regard to technical knowledge	The state of the art as specified in EN 50014 and EN 50020 satisfies this requirement		
1.2.4	Dust deposits	Certification for gas atmospheres only		
1.2.5	Additional means of protection	No special requirements		
1.2.7	Protection against other hazards	The equipment is designed to comply with the requirements of EN 50014		
1.6.4	Hazards arising from connections	The equipment is provided with suitable conduit entries		
2.1.1	Explosive atmospheres caused by gases, vapours or hazes.	Equipment is designed to comply with the requirements of EN 50020		

ITS Testing & Certification Limited
ITS House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977

http://www.etlsemko.com/uk
Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA

This Certificate is the property of ITS Testing and Certification Ltd and is subject to ITS Testing and Certification Conditions for Granting Certification

ITS Intertek Testing Services

- 13. Schedule
- 14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS02ATEX2006
- 19. DRAWINGS

Number	Issue	Date	Description
CI386-01	1	Nov. 01	BA386 Certification Information

ITS Testing & Certification Limited
ITS House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977
http://www.etlsemko.com/uk
Registered No 3272281 Registered Office: 25 Savile Row London WIX LAA

This Certificate is the property of ITS Testing and Certification Ltd and is subject to ITS Testing and Certification Conditions for Granting Certification