



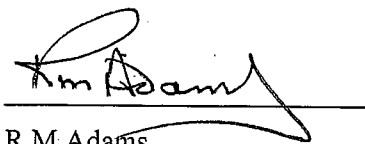
COMPONENT CERTIFICATE



- 1.
2. ITS No. Ex 01E2021U
3. This Certificate is issued for the electrical component:
BA491 BATTERY UNIT
4. Manufactured and submitted for Certification by:
BEKA ASSOCIATES LIMITED
Old Charlton Road, Hitchin, Herts SG5 2DA
- 5.1 The component must be designed and constructed in accordance with the specification set out in the Schedule or Schedules attached hereto and in the documents referred to therein.
- 5.2 The document should not in any way be construed as a Certificate of Conformity or an Inspection Certificate but it may be used by a Certification Authority to establish the acceptability of the component for use as a component part of equipment which is certified by either a Certificate of Conformity or an Inspection Certificate.
- 5.3 Insofar as the component used in an equipment subject to certification is identical with the one forming the subject of the present Component Certificate, reference in a Certificate of Conformity or an Inspection Certificate to the Number of this Component Certificate will suffice to specify the characteristics detailed in this document without the need for collection of documents or repetition of the examinations and tests detailed herein. This does not preclude a requirement for any supplementary tests which may be necessary as a function of the use of the component e.g. distances from enclosure walls, heating etc.
- 6.1 ITS being an Approved Certification Body in accordance with Article 14 of the Council Directive of the European Communities of 18 December 1975 (76/117/EEC) certifies that the component has successfully met the examination and test requirements and has been found to comply with harmonised European Standards:

EN 50014: 1992 EN 50020: 1994
- 6.2 These examinations and tests are recorded in confidential ITS Report Number 01005295 dated November 2001, which is held by ITS to be available at the disposal of the Commission and of the Member States.
7. The component is coded: EEx ia IIC, $T_{amb} = -40^{\circ}\text{C}$ to 50°C .
8. The supplier of the electrical component referred to in this certificate has the responsibility to ensure that the component conforms to the specification laid down on the Schedule to this certificate.
9. This electrical component shall NOT be marked with the distinctive community mark specific in Annex II of the Commission Directive 84/47/EEC of 16 January, 1984.

Certificate Approved by:


R M Adams
Quality Manager
30 November 2001

Sheet 1 of 2

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

<http://www.itsglobal.com>

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.



COMPONENT CERTIFICATE

Schedule

Certificate ITS No. Ex 01E2021U

Dated: 30 November 2001

COMPONENT

BA491 Battery Unit is designed to provide an intrinsically safe output voltage of 3.7 V dc maximum.

The BA491 comprises a battery board containing two lithium batteries, two current limiting resistors, two diodes and a 2 way connector.

The lithium batteries are Sonnenschein Type SL360PT. When installed in an apparatus, the BA491 may be assigned a Temperature Class T5 referred to an ambient temperature of 50°C.

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

The output parameters of the BA491 Battery Unit are:

$U_o = 3.7 \text{ V dc}$
 $I_o = 200 \text{ mA dc}$
 $P_o = 0.2 \text{ W}$

DRAWINGS

Number	Issue	Date	Description
CI491-01, sheets 1 to 6	1	Sept 01	BA491 Certification Information

SCHEDULE OF LIMITATION

1. The component must be housed in an enclosure which provides a Degree of Protection of at least IP20.
2. The arrangements for connection of external circuits must comply with the requirements of Clause 6.3 of EN 50020: 1994.

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