

| | | |
|--|-----------------------------|---|
| Intertek C&E Management System | | Page 1 of 4 |
| Work Instruction (Inspection) | | Document No.: WI-R-EMEA-CERT-INSP-PCS053 |
| EMEA CERTIFICATION SCHEMES - PRODUCT CONTROL SPECIFICATIONS | | |
| Issue Date: | Revision Date: 23 Jan 2018 | Approved by: Fredrik Wennersten |
| | Effective Date: 23 Feb 2018 | |

1.0 Purpose

Product Control Specifications (PCS) specify the requirements for routine inspections, tests, Product Verification Tests and sample selection for products certified under an Intertek EU Type 5 certification scheme (including GS, S, BEAB, ASTA, ENEC, BAUART and TICK MARK). They are for use by manufacturers and by factory inspectors.

2.0 Scope

Products: AC and/or DC supplied control gear for fluorescent/discharge lamps
Standards: EN 61347-2-3 (EN 60929) and EN 61347-2-12
Marks: S, BAUART, ENEC and TICK-mark

3.0 Routine inspections and tests

3.1 General

The following requirements apply to most products.

Variations may be permitted by prior, written agreement from the certification body.

The factory should have a quality plan defining all inspections and tests on materials, components and completed products as appropriate.

Completed products shall be marked to confirm satisfactory completion of all required testing.

Any products which fail inspection or testing shall be segregated and not allowed to continue through the process until rectified and re-inspected or retested.

Products shall not be released until the testing equipment has been checked again following a production batch.

Records of inspections and test should be maintained and held for at least two years.

Records shall include:

- Type of product
- Date of test
- Place of manufacture
- Quantity tested
- Number of failures and actions taken

~ Note: After printing or download, this document is no longer under control and shall be used for reference only. ~

| | | |
|--|-----------------------------|--|
| Intertek C&E Management System | | Page 2 of 4 |
| Work Instruction (Inspection) | | Document No.: WI-R-EMEA-CERT-INSP-PCS053 |
| EMEA CERTIFICATION SCHEMES - PRODUCT CONTROL SPECIFICATIONS | | |
| Issue Date: | Revision Date: 23 Jan 2018 | Approved by: Fredrik Wennersten |
| | Effective Date: 23 Feb 2018 | |

3.2 Required inspections and tests (for Intertek Certification Marks)

| Inspection/test | Test parameters | Sampling plan |
|--|--|---------------|
| Satisfactory appearance, correct and clear markings and any instructions | Visual inspection | 100% |
| Function test for check of correct operation | Generally with proper lamps at normal operating voltage | 100% |
| Electric strength test *) (made between input/output terminals short-circuited and body) | Minimum 1500V AC or Minimum 2122V DC for at least 1 s | 100% |
| Protective earth continuity test **) (between earthing terminal/contact and accessible metal parts that may become live in case of insulation defect) | With minimum current of 10A with no no-load voltage not exceeding 12V for at least 1 s. Max. contact resistance 0,5Ω. | 100% |

*) Class II (independent) control gear or control gear with plastic case and without earthing terminal: the earth continuity, the electrical strength and the insulation resistance tests do not apply.

***) Only for Class I independent control gear.

3.3 Required inspections and tests (for ENEC Marked products)

In addition to the inspections and tests detailed in section 3.2, the requirements of document ENEC 303 Annex F or Annex AC shall be fulfilled.

4.0 Product Verification Tests/Periodic testing (refer to CIG 021 clause 5.8)

Product verification tests are in addition to the production line inspection and routine tests and are performed on samples taken randomly from the production line.

The manufacturer is responsible for conducting or arranging for the following periodic testing to be completed. Records shall be available for review during factory inspection visits.

~ Note: After printing or download, this document is no longer under control and shall be used for reference only. ~

| | | |
|--|-----------------------------|---|
| Intertek C&E Management System | | Page 3 of 4 |
| Work Instruction (Inspection) | | Document No.: WI-R-EMEA-CERT-INSP-PCS053 |
| EMEA CERTIFICATION SCHEMES - PRODUCT CONTROL SPECIFICATIONS | | |
| Issue Date: | Revision Date: 23 Jan 2018 | Approved by: Fredrik Wennersten |
| | Effective Date: 23 Feb 2018 | |

| Certification Mark | Frequency | PVT/periodic testing required |
|-------------------------------------|--|--|
| S, BEAB, ASTA, BAUART and TICK Mark | According to requirements in document ENEC 303 Annex F or AC | PVT is not mandatory but it is recommended to demonstrate ongoing compliance with EU Directives. The following PVT is recommended: <ul style="list-style-type: none"> PVT according to document ENEC 303 Annex F or AC |
| ENEC | According to requirements in document ENEC 303 Annex F or AC | PVT according to document ENEC 303 Annex F or AC |

Intertek certification offices can advise on any aspect of PVT and can provide the testing service if required.

5.0 Surveillance testing by the Certification Body

If required, samples are selected during the factory inspection and the manufacturer should send these to the address provided. If samples are required but not available at the time of the inspection, the manufacturer should send these as soon as they become available. If there is no stock or production, the manufacturer should advise the certification body that samples will not be provided due to no production.

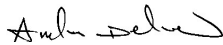
The certification body will arrange for the required testing to be completed. This will be charged to the manufacturer or Licence holder. A report of the testing will be provided.

| Certification Mark | Surveillance testing requirements |
|---------------------------|--|
| S, BAUART and TICK-mark | Regular selection of samples is not required. Samples may be required if any deviations to the type tested or non-compliance with the product standard are suspected Required number of samples: 1 |
| ENEC | Samples for product surveillance are selected by the inspector at the time of factory inspection, to be sent to Intertek. |

~ Note: After printing or download, this document is no longer under control and shall be used for reference only. ~

| | | |
|--|-----------------------------|---|
| Intertek C&E Management System | | Page 4 of 4 |
| Work Instruction (Inspection) | | Document No.: WI-R-EMEA-CERT-INSP-PCS053 |
| EMEA CERTIFICATION SCHEMES - PRODUCT CONTROL SPECIFICATIONS | | |
| Issue Date: | Revision Date: 23 Jan 2018 | Approved by: Fredrik Wennersten |
| | Effective Date: 23 Feb 2018 | |

| | |
|--|-------------------------------|
| | Required number of samples: 1 |
|--|-------------------------------|

| Document History | | | | |
|------------------|------------|--------------------------------------|------------------------------------|--|
| Revision No. | Date | Changes | Name & Title | |
| | | | Author | Approving Official |
| 1 | 11/02/2015 | Original issue | Torbjörn Andersson/ R W Hayward |  |
| 2 | 2018-01-23 | Corrections in 2.0, 3.2, 4.0 and 5.0 | Paul Klemets | Fredrik Wennersten |
| | | | | |

End of Document

~ Note: After printing or download, this document is no longer under control and shall be used for reference only. ~