

<b>Intertek C&amp;E Management System</b>		Page 1 of 5
<b>Work Instruction (Inspection)</b>		<b>Document No.:</b> <b>WI-R-EMEA-CERT-INSP-PCS022</b>
<b>EMEA CERTIFICATION SCHEMES - PRODUCT CONTROL SPECIFICATIONS</b>		
Issue Date: 2015-02-11	Revision Date: 2018-12-10	Approved by: Fredrik Wennersten
	Effective Date: 2019-01-10	

### 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: Switches for household and similar fixed-electrical installations  
Standards: IEC/EN 60669-1, IEC/EN 60669-2-1  
Marks: S, ASTA, BG, TICK

### 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

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### 3.2 Required inspections and tests

Inspection/test	Test parameters	Sampling plan
Functional test	Visual inspection	100%
Marking	Visual inspection	100%
Check of connecting and positioning of internal wires	Visual and by buzzer or similar	100%
Earthing continuity test	<p>Earthing continuity test *), minimum 25 A 2 s: (supply max. 12 V a.c.) Criteria: Max. measured resistance 0.05 Ω · (the current shall pass the circuit without interruption)</p> <p>For products without internal prewired earth-connections or for products with terminal intended for the looping-in conductors only, the test may be performed as a visual inspection or with a buzzer, ohm-meter or similar.</p> <p>*) Not applicable for SELV electronic switches</p>	100%
Dielectric strength test	<p>Test voltage as below is applied for 2-5 s Criteria: no flashover or breakdown</p> <p><b>or</b></p> <p>Insulation resistance test at min. 500 V d.c. Criteria: Max. insulation resistance as below</p>	100%

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	Test Voltage	MΩ
between live parts and - accessible metal parts connected to the earth	2 000 V	5,0
- the body*)	2 000 V	5,0
<p>*) Body includes accessible metal parts, metal frames supporting the base of flushtype switches, operating keys, metal foil in contact with the outer surface of accessible external parts and operating keys of insulating material, the point of anchorage of the cord, chain or rod for switches operated by such means, fixing screws of bases or covers and cover plates, external assembly screws, earthing terminals and any metal part of the mechanism if required to be insulated from live parts.</p>		
- SELV circuits, metal knobs, push-buttons and the like	4 000 V	N/A

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

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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.

<b>Certification Mark</b>	<b>Frequency</b>	<b>PVT/periodic testing required</b>
S	(Annual)	PVT is not mandatory, but it is recommended to demonstrate ongoing compliance with EU Directives. The following PVT is recommended: See tests below
ASTA BG TICK	Annual	For each basic type certified, the following tests according to the product standard: 8 Marking 9 Checking of dimensions 10 Protection against electric shock 11 Provision for earthing 12 Terminals * 13 Constructional requirements * 15 Resistance to ageing * 16 Insulation resistance and electric strength 17 Temperature rise 20 Mechanical strength * 21 Resistance to heat 23 Creepage distances, clearances and distance through sealing compound Comparison of used components with certified version

### 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.

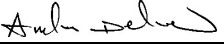
The certification body will arrange for the required testing to be completed. This will be charged to the manufacturer or Licence holder. A report of the testing will be provided.

<b>Certification Mark</b>	<b>Surveillance testing requirements</b>
ASTA	Samples to be selected each year as detailed on the sample selection record (form AFT-17) provided to the inspector before each visit.

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S, BG, TICK	<p>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</p> <p>Required number of samples: 3</p>
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Document History				
Revision No.	Date	Changes	Name & Title	
			Author	Approving Official
1	11/02/2015	Original issue	Paul Klemets/ R W Hayward	
2	2018-11-10	Modified requirements in 3.2, 4.0 and 5.0	Thomas Jonasson/ Paul Klemets	Fredrik Wennersten

End of Document

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