

**TÜV Rheinland**  
**Uluslararası Standartlar Sertifikasyon ve Denetim A.Ş.**

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**Deney Raporu**  
*Test Report*

<b>Müşterinin adı/adresi</b> Customer name/address	Güvenir Elektrik İthalat İhracat San. Ve Tic. Ltd. Şti. / Büyükhendek Cad. Ersoy Pasajı 43/52 Şişhane- İSTANBUL
<b>Alıcı Adı</b> Buyer name	/
<b>Sipariş/Artikel Numarası</b> Order/Article No.	/
<b>Numunenin adı ve tarifi</b> Name and identity of test item	O.C.M. Electric Blanket Switch
<b>Numunenin kabul tarihi</b> Date of receipt of test item	20.09.2013
<b>Açıklamalar</b> Remarks	The results given in this report belong to the received sample by vendor
<b>Deneyin yapıldığı tarih</b> Date of Test	20.09.2013 – 25.09.2013
<b>Raporun Sayfa Sayısı</b> Number of pages of the Report	5
<b>Test Kapsamı</b> Test Scope	Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment. Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (dated 30/05/2008, issue 26891 Official Journal) Waste Electrical and Electronic Equipment Directive (dated 22/05/2012, issue 28300 Official Journal)
<b>Test Sonucu</b> Test Result	PASS

**Türk Akreditasyon kurumu (TÜRKAK) deney raporlarının tanınması konusunda Avrupa Akreditasyon Birliği (EA) ve Uluslar arası Laboratuvar Akreditasyon Birliği (ILAC) ile karşılıklı tanınma anlaşmasını imzalamıştır.**  
The Turkish Accreditation Agency (TÜRKAK) is signatory to the multilateral agreements of the European co-operation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the Mutual recognition of the test reports.

**Deney ve /veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deney metodları bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.**  
The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following, pages which are part of this report.

**Mühür**  
Seal

**Tarih**  
Date

**Deney Sorumlusu**  
Person in charge of test

**Laboratuvar Müdürü**  
Head of Testing Laboratory

26.09.2013

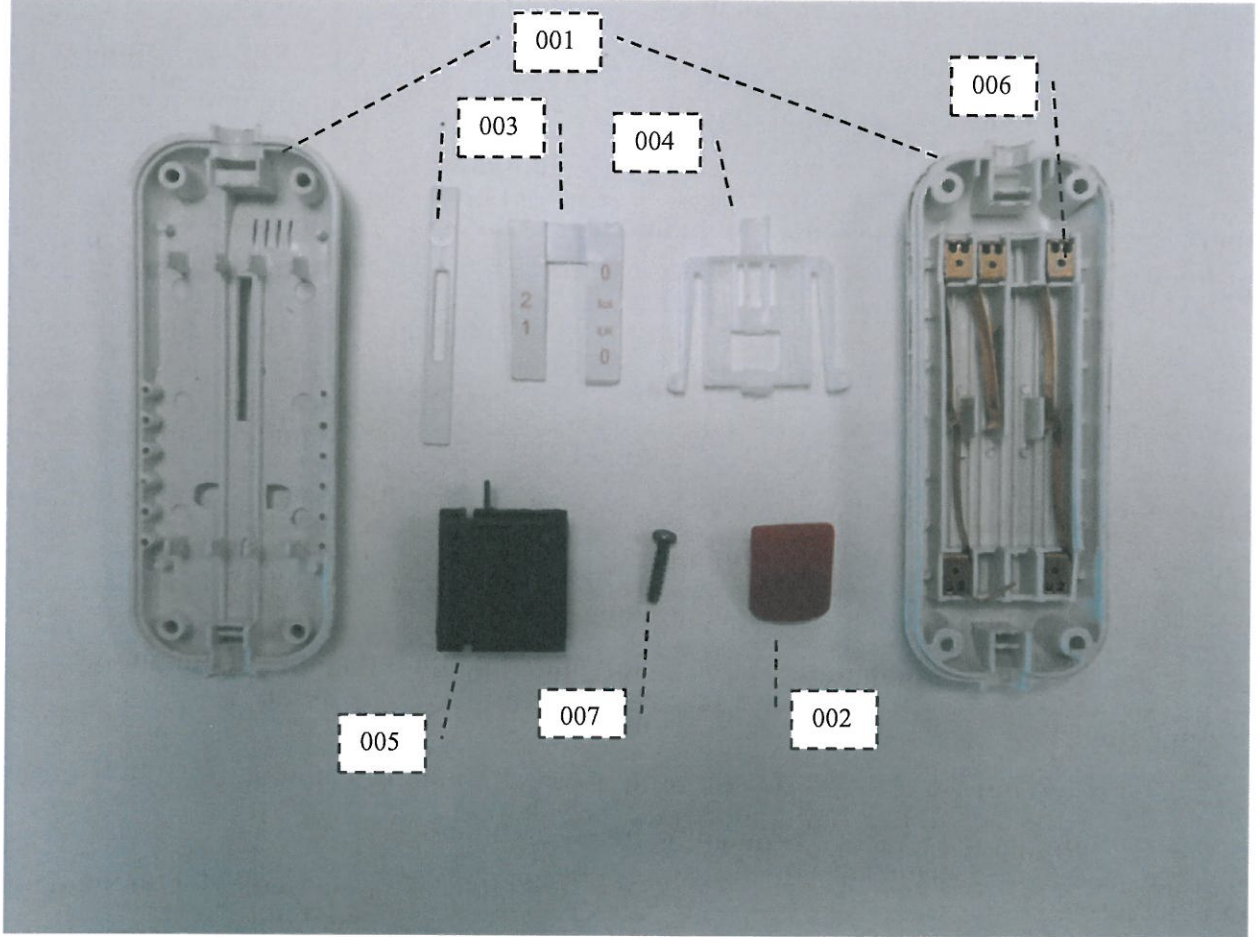
Fatih KABAY

Duygu Yıldırım

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir.

This test report shall not be reproduced other than in full except with the permission of the laboratory. Testing reports without signature and seal are not valid.

## 1. Photo



## 2. List of materials

Mat. No	Article Name	Remark
1	White body plastic	-
2	Red switch	-
3	White soft plastic inside key	-
4	White hard plastic inside key	-
5	Dk. Brown plastic inside key	-
6	Copper metal	-
7	Screw	-



Date: 26.09.2013

### 3. Results

#### RoHS Screening, XRF

Mat. No.	Sample Description	Test Parameter (mg/kg)					Result
		Lead	Cadmium	Chromium, total	Mercury	Bromium	
001	White body plastic	<500	<50	<500	<500	<500	Pass
002	Red switch	<500	<50	<500	<500	<500	Pass
003	White soft plastic inside key	<500	<50	<500	<500	<500	Pass
004	White hard plastic inside key	<500	<50	<500	<500	<500	Pass
005	Dk. Brown plastic inside key	<500	<50	<500	<500	<500	Pass
006	Copper metal	<500	<50	<500	<500	<500	Pass
007	Screw	<500	<50	11733 <sup>*1)</sup>	<500	<500	Pass

n.d.: Not detected

Detection Limits: Cadmium: 50 mg/kg; Lead, Chromium, Mercury, Bromium: 500 mg/kg

Limits according to RoHS directive:

Lead: 1000 mg/kg

Mercury: 1000 mg/kg

Chromium(VI): 1000 mg/kg

Cadmium: 100 mg/kg

Polybrominated biphenyl or polybrominated diphenylethers: 1000 mg/kg

#### Notes:

*)	Components were analyzed by wet chemistry
1)	Total Chromium is determined, positive results are confirmed by Chromium VI determination by spot test.

**Chromium VI - Spotcheck**

Material No.	007	
Unit	mg/kg	
Chromium VI	Negative	

**4. Summary of methods**

RoHS – screening, RFA	Standard: EN 62321	Issue date: April 2009
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Method description:  
Semi-quantitative determination of elements by X-ray fluorescence (XRF) in solid state materials.

Notes:  
Findings of total chromium can be caused by hexavalent chromium as well as trivalent or metallic chromium. In case of positive findings, caused by possible matrix effects, the compliance with the limit value requirements should generally be verified by a reference method.

Chromium VI	Standard: IEC 62321 Annex B	Issue date: April, 2009
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Method description:  
Spotcheck