

EMC TEST CERTIFICATE

YORK EMC SERVICES (2007) Ltd
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 UKAS Testing Number 1574

Issued to: -	Orange Instruments Ltd Lower Farm Road Moulton Park Northampton NN3 6XF	Order No.	PW 50095 100
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Electromagnetic Compatibility Test/s were performed on the apparatus as detailed: -

Description	Industrial type motion detector to switch a relay which, typically powers a luminaire.		
Type number	ExMo		
Serial Number/s	M/11/0039		
Circuit Revision	Issue 4 November 2013		
Date received	19 November 2013	Date Tested	19 November 2013 to 25 November 2013
Specification/s	EMC Emissions	EN61326-1:2006 Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1 General requirements	
	EMC Immunity	EN61326-1:2006 Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1 General requirements	

The apparatus to which this certificate relates was tested against the above specifications. Full results are retained on file at the EMC Test Centre, Yate, Bristol. The apparatus was found to be compliant to the above specifications subject to the following conditions:



UKAS Accreditation

Tests marked "Not UKAS Accredited" in this certificate are not included in the UKAS Accreditation Schedule for our laboratory. Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation.

EUT Submitted

These results apply only to the particular EUT submitted, in the configuration used and in the mode of operation tested.

Certificate No: -	B1363TC1	Job No: -	B0701	Date: -	25 November 2013	Page 1 of 2
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Tested by: -	Approved signatory: -
 D H Bowley Test Engineer	 A. Dace, BA, iNCE Principal Engineer

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EMC FORM Issue 1



1574
Testing

A BIS
designated
Notified Body
No 1892



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EN61326-1:2006 Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1 General requirements

Note: EN61326-1:2006 references dated and undated basic standards. Standards with amendments have been used during testing as indicated below

Consisting of;	Required?	Level	Result
EN55011: 2009 +A1 (CISPR 11) Industrial, scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics - Limits and methods of measurement	Yes	Conducted emissions Class B, ac power 150kHz to 30MHz	Pass
	Yes	Radiated emissions Class B 30MHz to 18000MHz	Pass
EN 61000-3-2:2013 Electromagnetic Compatibility (EMC) Part 3-2: Limits – Limits for harmonic current emissions (equipment input current up to and including 16A per phase)	Yes	Class A	Pass
EN 61000-3-3:2008 Electromagnetic Compatibility (EMC) Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current < 16A per phase and not subject to conditional connection.	Yes	Plt/Pst/dmax	Pass
EN61000-4-2: 2009 (IEC 1000-4-2) Electromagnetic Compatibility (EMC) Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test.	Yes	±8kV air discharge ±4kV contact discharge	Pass
EN61000-4-3: 2006 +A1 +A2 (IEC 61000-4-3) Electromagnetic Compatibility (EMC) Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	Yes	10V/m 80MHz to 1GHz 3V/m 1.4GHz to 2GHz 1V/m 2GHz to 2.7GHz 1kHz 80% AM	Pass
EN61000-4-4: 2004 +A1 (IEC 61000-4-4) Electromagnetic Compatibility (EMC) Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	Yes	±2kV ac power	Pass
EN61000-4-5: 2006 (IEC 61000-4-5) Electromagnetic Compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test	Yes	±2kV ac power line to earth ±1kV ac power line to line	Pass
EN61000-4-6: 2009 (IEC 61000-4-6) Electromagnetic Compatibility (EMC) Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	Yes	3Vrms ac power 150kHz to 80MHz 1kHz 80% AM	Pass
EN61000-4-11: 2004 +A1 (IEC 61000-4-11) Electromagnetic Compatibility (EMC) Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	Yes	0% residual for +/- 0.5 cycles 40% residual for 5 cycles 70% residual for 25 cycles 0% residual for 250 cycles	Pass

-----End of Certificate-----