




CC 704459

Date: 09 September 2021

CERTIFICATE OF COMPLIANCE

This certificate of compliance validates the following			
TEST REPORTS NUMBER 'Assessment Reports' are not acceptable	8895884 8331677 Rev1 3389302	CERTIFICATES NUMBER	KM 704454
DATE OF ISSUE	4 September 2018 29 October 2018 06 July 2021	DATE OF ISSUE	05 August 2021
DATE OF EXPIRY	By expiration of the standard(s)	DATE OF EXPIRY	13 February 2022
Manufacturer details			
NAME OF FACTORY / MANUFACTURER	Eaton Electrical Systems Ltd	NAME OF THE BRAND	JSB
FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Dongguan Arlec Electrical Products Co. , Ltd. 4th Building, F Zone Zhengwei Science Park Dongkeng Town Dongguan City Guangdong China	MODEL / NO	ECS110 EC125 (SVAEL) EC125B EC125BVEL EC140 EC141
WEBSITE	www.eaton.com www.cooper-ls.com	LOGO ON THE PRODUCT	
TEL	+971 4 8066100	EMAIL	EatonMiddleEnquiries@eaton.com





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Product Details From Test Report		Reference Test Report page NO
<p>DESCRIPTION OF THE PRODUCT (TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/ SENSITIVITY ETC)</p>	<p>The ECS110 is an addressable module for monitoring the function of self-contained luminaires in conjunction to EC2001 Easichk panel.</p> <p>SVAEL Interface: EC125(SVAEL), EC125B, EC125BVEL The SVAEL interface board is a circuit monitoring device, used with a luminaire in line with the mains input and a control gear, which are all part of a central battery system. The SVAEL circuit is purely to monitor the current drawn by a control gear module via a current transformer; it plays no part in the emergency operation. Changeover for the luminaire occurs at the central battery unit, either (220-240 V) AC from the mains, or (220-240 V) AC from the inverter when mains is not present, there is no DC supply used for the emergency operation. The 230V AC from the mains is fed to 'Lin' terminal through the current transformer and back out the 'Lout' terminal to the driver, thus being in line with mains input and the control gear, capable of detecting the drop in normal supply. Furthermore, there is a communications bus for the monitoring; this also powers the SVAEL (24V DC, 2mA).</p> <p>EC140/EC141 The Eaton Electrical Systems EC141 and EC140 are addressable monitoring and switching device designed for use with static inverter-based emergency lighting applications. When the monitored unswitched local mains supply is health, the emergency luminaires connected to the EC141 are fed from their normal switch mains supply and can be switched as required. In the event of a failure of the monitored unswitched supply, or the instigation of an automatic test, the luminaire is automatically disconnected from the normal switched supply and connected to the maintained output of the static inverter. Additionally, at EC141 an auxiliary contact is also provided rated at 1A, 24 Vdc, which opens in the event of a mains failure or test and is designed to interface with external lighting control systems. and at EC141 the function of the connected luminaire is monitored (like EC125). Both modules need to be installed in a luminaire or in an independent enclosure.</p>	<p>1,6</p>





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TEST STANDARD (SUCH AS ASTM/BS EN/ DN ETC)	Tested to the full requirements of BS EN 61347-2-11:2002 in conjunction with BS EN 61347-1:2015	4
TEST DESCRIPTION	The following tests were part of the certification process: <ul style="list-style-type: none">- Classification- Product Marking- Protection against accidental contact with live parts- Terminals- Moisture resistance and insulation- Electric strength- Fault conditions- Construction- Printed circuits- Insulation between circuits and accessible parts- Creepage distances & clearances- Screws, current carrying parts and connections- Electrical connections- Resistance to heat, fire and tracking	7-31
SPECIFICATION OF TEST SPECIMEN	The complete above-mentioned tests have been carried out on models considered as representative of the listed models. (see appendix 1)	
TEST RESULT (SUCH AS PASSED CRITERIA ___/ COMPLIED TO ___/ DURATION ___/OBSERVATION ___/ETC)	All applicable clauses as mentioned in the Test Report have passed the test.	7-31





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**PRODUCT APPLICATION
GUIDELINE**

(END USE)

(CLEARLY STATE THE END USE WITH SPECIFIC APPLICATION, SUCH AS EXACT FIRE RATING/TO BE INSTALLED IN ___/TO BE INSTALLED AT ___/TO BE CONNECTED WITH ___/TO BE INSTALLED WITH ___ ETC ALONG WITH ANY WARNINGS SUCH AS NOT TO BE USED IN ___/NOT TO BE INSTALLED AT ___/ NOT TO BE INSTALLED WITH ___ ETC.

The ECS110 is an addressable module for monitoring the function of self-contained luminaires in conjunction to EC2001 Easichcek panel.

The SVAEL (EC125, EC125B, EC125BVVEL) interface board is a circuit monitoring device, used with a luminaire in line with the mains input and a control gear, which are all part of a central battery system. The SVAEL circuit is purely to monitor the current drawn by a control gear module via a current transformer; it plays no part in the emergency operation. Changeover for the luminaire occurs at the central battery unit, either (220-240 V) AC from the mains, or (220-240 V) AC from the inverter when mains is not present, there is no DC supply used for the emergency operation.

The 230V AC from the mains is fed to 'Lin' terminal through the current transformer and back out the 'Lout' terminal to the driver, thus being in line with mains input and the control gear, capable of detecting the drop in normal supply. Furthermore, there is a communications bus for the monitoring; this also powers the SVAEL (24V DC, 2mA).

EC140/EC141

The Eaton Electrical Systems EC141 and EC140 are addressable monitoring and switching device designed for use with static inverter based emergency lighting applications. When the monitored unswitched local mains supply is health, the emergency luminaires connected to the EC141 are fed from their normal switch mains supply and can be switched as required.

In the event of a failure of the monitored unswitched supply, or the instigation of an automatic test, the luminaire is automatically disconnected from the normal switched supply and connected to the maintained output of the static inverter.

Additionally, at EC141 an auxiliary contact is also provided rated at 1A, 24 Vdc, which opens in the event of a mains failure or test and is designed to interface with external lighting control systems. and at EC141 the function of the connected luminaire is monitored (like EC125).

Both modules need to be installed in a luminaire or in an independent enclosure.





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PRODUCT APPLICATION GUIDELINE (continued) (END USE) (CLEARLY STATE THE END USE WITH SPECIFIC APPLICATION, SUCH AS EXACT FIRE RATING/TO BE INSTALLED IN___/TO BE INSTALLED AT___/TO BE CONNECTED WITH___/TO BE INSTALLED WITH___ ETC ALONG WITH ANY WARNINGS SUCH AS NOT TO BE USED IN___/NOT TO BE INSTALLED AT___/ NOT TO BE INSTALLED WITH___ ETC.	EC125..., EC140, EC141 are compatible with EATON LoadStar central supply systems, KM 569812 and the EATON Easichck Panels EC1002TS/ EC1002TSNC, KM636748. ECS110 is compatible with Easichck Panel EC2001: KM636748	
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Laboratory and Certification body details			
NAME OF CERTIFICATION BODY	BSI Assurance UK Limited bsi.	NAME OF TEST FACILITY	BSI Assurance UK Limited bsi.
CERTIFICATION BODY ADDRESS / REGION <small>(STREET / TOWN / CITY / COUNTRY)</small>	Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes, MK5 8PP, United Kingdom	TEST FACILITY ADDRESS / REGION <small>(STREET / TOWN / CITY / COUNTRY)</small>	Holywell Park, Ashby Road, Loughborough, LE11 3AQ, United Kingdom
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ACCREDITED BY <small>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE CERTIFICATION BODY, ALONG WITH WEBSITE)</small>	UKAS 21-47 High Street Feltham Middlesex TW13 4UN www.ukas.com	ACCREDITED BY <small>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE LABORATORY, ALONG WITH WEBSITE)</small>	UKAS 21-47 High Street Feltham Middlesex TW13 4UN www.ukas.com
AS PER <small>(STANDARD TO WHICH THE CERTIFICATION BODY IS ACCREDITED TO)</small>	ISO 17065:2012	AS PER <small>(STANDARD TO WHICH YOUR ORGANIZATION IS ACCREDITED TO)</small>	ISO 17025:2005
VALIDITY <small>(EXPIRY DATE OF CERTIFICATION BODY ACCREDITATION)</small>	Not applicable (no expiry date for UKAS accreditation)	VALIDITY <small>(EXPIRY DATE OF LABORATORY ACCREDITATION)</small>	Not applicable (no expiry date for UKAS accreditation)
REFERENCE NUMBER: <small>(CERTIFICATION BODY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)</small>	0003	REFERENCE NUMBER: <small>(THE LABORATORY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)</small>	0135
CERTIFICATION MARK			





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(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER			
NAME OF MANUFACTURER'S SIGNATORY	Gerhard Rotgeri	SIGNATURE	
EMAIL / TEL	GerhardRotgeri@eaton.com	FACTORY OFFICIAL SEAL	
NOTES: I Undertake that all data and information provided are genuine and accurate			

(ENDORSEMENT) TO BE SIGNED BY CERTIFICATION BODY			
NAME OF CERTIFICATION BODY SIGNATORY	Holly Rossington	SIGNATURE	
EMAIL / TEL	Holly.Rossington@bsigroup.com	CERTIFICATION BODY OFFICIAL SEAL	
NOTES: I Undertake that all data and information provided are genuine and accurate			

ATTACHMENTS:

- APPENDIX 1 – FULL LIST OF MODELS



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APPENDIX 1

1- Easichck addressable interface modules

Model	Description /Application	Voltage Supply	Hz	Duration	Computability
ECS110	Easichck addressable interface modules for building in to Emergency luminaires (self-contained)	24 V DC	N/A	180 min for the connected emergency luminaries	Compatible with EC2001 Panel KM 636748
EC125 (SVAEL) EC125B EC125BVEL	Easichck addressable interface modules for building in to Emergency luminaires (centrally supplied)	24 V DC	N/A	180 min for the connected emergency luminaries	Compatible with Central Battery system Loadstar KM 569812 and EC1002 Panel KM 636748
EC140	Easichck addressable monitoring and switching device	230/240 V AC, 3A	50/60 Hz	180 min for the connected emergency luminaries	Compatible with Central Battery System Loadstar KM 569812 and EC1002 Panel KM 636748
EC141	Easichck addressable monitoring and switching device with luminaire monitoring	230/240 V AC, 3A	50/60 Hz	180 min for the connected emergency luminaries	Compatible with Central Battery System Loadstar KM 569812 and EC1002 Panel KM 636748

