

Certificate




for European Product Safety
Intertek

Reference No. 1520586

Thermally operated control for appliances

Type designation	ERC 102 *, ERC 103 *, ERC 112 *, ERC 113 *		
Certificate holder	Danfoss A/S Global Approvals E14-S4a Nordborgvej 81 DK-6430 Nordborg DENMARK		
The product complies with the standard(s)	EN 60730-1:2000 +A12+A13+A1+A14+A16+A2 EN 60730-2-9:2010		
Date of expiry	11 January 2021		
EU Directive information	The product satisfies the provisions for CE marking according to the Low Voltage Directive 2006/95/EC.		

Additional information in Appendix.

Certification Body	Intertek Semko AB, Product Certification	Place	Kista - Stockholm
Signed	 Bo Berglöf	Date	12 January 2016 Page 1 of 4

This certificate is issued in accordance with the terms and conditions set out in the Appendix.



Intertek
Appendix

Reference No. 1520586

Technical data

Type designation	ERC 102 *, ERC 103 *, ERC 112 *, ERC 113 *
Rated voltage (V)	100-240V AC
Rated Current (A)	16(16)A for relay 1, 8A or 2(2)A for relays 4-6 (max 10A total on relays 4-6)
Number of cycles	100000 (A) relay 1, 30000 (A) relays 4-6
Frequency (Hz)	50/60Hz
Class	For Class I or Class II appliances
Features of automatic action	1.B (micro-disconnection)
Purpose of control	Incorporated thermostat control for refrigeration
IP-Class	IP00 for rear, IP65 for front
Method of connection	Tab terminals 6.3x0.8 mm
Trademark	

Product information

T55, Category D, Material Group IIIa (PTI 250),
Pollution degree 3, U_{imp} 2.5 kV. PCB and housing glow-
wire tested at both 850°C and 750°C and complies with
glow-wire test in IEC 60335-1 Ed 5.

Other information

The product complies with EN 60335-2-89:2010 Annex
BB and EN 60335-2-24:2010 Annex CC.
The maximum surface temperature under normal and
abnormal operations is 67°C.

This Certificate is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this certificate. Only the Client is authorized to permit copying or distribution of this certificate and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.



Intertek
Appendix

Reference No. 1520586

The following sensors are accessories sold by the manufacturer and can be connected to the inputs.

Description	(type of sensor, cable and length)	First code	Last code
Temperature sensors, NTC5K, standard PVC, 0-3 m		077F8750	077F8799
Temperature sensors, NTC5K, standard PVC, 3-6m		080G2010	080G2039
Temperature sensors, NTC5K, TPE, 0-6m		077F8720	077F8749
Temperature sensors, NTC100K, High Temperature, 0-6m		080G2040	080G2049
Temperature sensors, Pt1000, 0-6m		080G3350	080G3359
Communication Cable, 0-6m		080G3380	080G3389
Door sensor Connection Cable, 0-6m		080G3331	080G3339
Door sensor Connection Cable, 0-6m		080G3343	080G3349
Magnetic Door sensor , 0-3m		080G3340	080G3342
Light Sensor, 0-6m		080G3310	080G3319
PIR motion sensor 0-4m (for ERC 112 and ERC 113 only)		080G3390	080G3393

ERC 103, 113 can use the following accessories in addition to the sensors above:
 RDI 07, RDI 07A – display
 RSP01 – remote setting potentiometer with on/off

Nomenclature

<u>ERC</u>	<u>102</u>	<u>A</u>
I	II	III

I : Designates product family
 ERC : Electronic Refrigeration Control

II : Designates series of control
 102/112 : Standard version
 103/113 : Special version (as 102/112 version but display and keypads not mounted)

III : Indicates number of relays employed

A : 1 relay (RE1 mounted)
 B : 2 relays (RE1 mounted + RE2 or RE3 or RE4 mounted)
 C : 3 relays (RE1, RE2 mounted + RE3 or RE4 mounted)
 D : 4 relays (RE1, RE2, RE3, RE4 mounted)

This Certificate is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this certificate. Only the Client is authorized to permit copying or distribution of this certificate and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.



Intertek Appendix

Reference No. 1520586

Customer specific application software may apply. Printing on buttons and colour of LED display may vary.

Manufacturing site(s) Enics Electronics (Beijing) Ltd.
A6 Xin Cheng Industrial Park
Ke Chuang No.2
Street 9# BDA, Beijing 100023
CHINA

This certificate, which includes production control, constitutes sufficient support for an EC Declaration of Conformity and CE marking, according to the principle of presumption of conformity, of the products according to the Low Voltage Directive 2006/95/EC.

This presumption can expire before end of validity of this certificate due to new issued Standard or Amendment and changes within the EU legislation.

Certification Body Intertek Semko AB, Product Certification *Place* Kista - Stockholm

Signed 
Bo Berglöf *Date* 12 January 2016

This Certificate is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this certificate. Only the Client is authorized to permit copying or distribution of this certificate and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.

EHG