



Lloyd's  
Register

## Type Approval Certificate

This certificate supersedes certificate number 02/20027 (E6) issued on 09 May 2014 which is hereby cancelled.

*This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.*

This certificate is issued to:

**PRODUCER**

Idec Corporation  
6-64 Nishimiyahara 2-chome  
Yodogawa-ku, Osaka 532-0004  
Japan

**PLACE OF  
PRODUCTION**

Siemens AG  
Elektronikwerk  
Werner-von-Siemens-Strasse 50  
92224 Amberg  
Germany

Siemens AG  
Elektronikwerk Chengdu  
Siemens Electrical Apparatus Ltd.  
Suzhou, Chengdu Branch  
No.99, Tian Yuan Road, HighTech Zone West  
Chengdu, Sichuan Province, 611730  
China

**DESCRIPTION**

Programmable logic controller SmartRelay

**TYPES**

Base Modules:  
FL1E-H12SND  
FL1F-H12SCD \*

**Certificate No.**

02/20027 (E7)

**Issue Date**

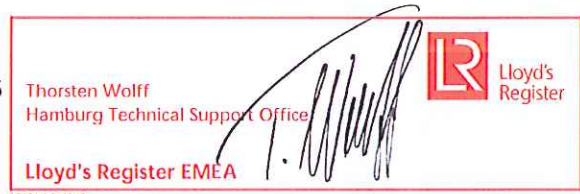
15 September 2015

**Expiry Date**

03 January 2018

**Sheet**

1 of 3



Thorsten Wolff  
Hamburg Technical Support Office  
Lloyd's Register EMEA

Lloyd's Register EMEA  
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**TYPES continuation**

FL1E-H12RCA  
 FL1F-H12RCA \*  
 FL1F-B12RCA \*  
 FL1E-H12RCC  
 FL1E-H12RCE  
 FL1E-B12RCE  
 FL1E-B12RCA  
 FL1E-B12RCC  
 FL1F-H12RCE \*  
 FL1F-B12RCE \*  
 FL1F-H12RCC \*  
 FL1F-B12RCC \*

Extension modules:

FL1B-M08B1S2  
 FL1F-M08B1S2 \*  
 FL1B-M08D2R2  
 FL1F-M08D2R2 \*  
 FL1B-M08B2R2  
 FL1F-M08B2R2 \*  
 FL1B-M08C2R2  
 FL1F-M08C2R2 \*  
 FL1B-J2B2  
 FL1F-J2B2 \*  
 FL1D-K2BM2  
 FL1F-K2BM2 \*  
 FL1F-J2BR2  
 FL1E-RD1  
 FL1F-RD1

**APPLICATION**

Marine, offshore and Industrial application for use in environmental categories ENV1, ENV2 and ENV3, as specified in Lloyd's Register Type Approval Test Specification No. 1 – 2002.

**Certificate No.**

02/20027 (E7)

**Issue Date**

15 September 2015

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03 January 2018

**Sheet**

2 of 3



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**OTHER CONDITION**

24V power supply lines are to be protected by Dehn Blitzductor order No. 918 402 / 918 422 (tested) or equivalent.

FL1E-H12RCE, FL1E-B12RCE, FL1F-H12RCE, FL1F-B12RCE modules are only to be used with 24VDC power supply.

FL1x-modules fulfil the EMC requirements for general power distribution zone.



Exception: All FL1F-modules marked with \* in above type list may be also used in bridge and deck zones with filter B84113-C-B30 (or equivalent).

*The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.*

*If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.*

*This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate.*

Certificate No.	02/20027 (E7)
Issue Date	15 September 2015
Expiry Date	03 January 2018
Sheet	3 of 3

 Thorsten Wolff Hamburg Technical Support Office Lloyd's Register EMEA <small>LR031-1.2013.12</small>	 Lloyd's Register
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Part 3

Control Units

Producer/Licence No.	Item Description	Technical Details	Category/ Additional Tests	Remarks	Cert. No.
<p>Idec Corporation 6-64 Nishimiyahara 2-chome Yodogawa-ku, Osaka 532-0004 Japan</p>	<p>Programmable logic controller SmartRelay</p> <p>Types:</p> <p>Base Modules:            FL1E-H12SND            FL1F-H12SCD *            FL1E-H12RCA            FL1F-H12RCA *            FL1F-B12RCA *            FL1E-H12RCC</p> <p>FL1E-H12RCE            FL1E-B12RCE            FL1E-B12RCA            FL1E-B12RCC            FL1F-H12RCE *            FL1F-B12RCE *            FL1F-H12RCC *            FL1F-B12RCC *</p> <p>Extension modules:            FL1B-M08B1S2            FL1F-M08B1S2 *            FL1E-M08D2R2            FL1F-M08D2R2 *            FL1B-M08B2R2            FL1F-M08B2R2 *            FL1B-M08C2R2            FL1F-M08C2R2 *</p> <p>FL1B-J2B2            FL1F-J2E2 *            FL1D-K2BM2            FL1F-K2BM2 *            FL1F-J2BR2            FL1E-RD1            FL1F-RD1</p>	<p>Power supply (Vac) 115/230V (Hz) 50/60 (Vdc) 24 V</p>	<p>ENV1            ENV2            ENV3            (2002)</p> <p>Low temperature (-25°C/16 hrs)</p>	<p>Expires: 03 January 2018</p> <p>24V power supply lines are to be protected by Dehn Elitzductor order No. 918 402 / 918 422 (tested) or equivalent.            FL1E-H12RCE, FL1E-B12RCE, FL1F-H12RCE, FL1F-B12RCE modules are only to be used with 24VDC power supply.            FL1x-modules fulfil the EMC requirements for general power distribution zone.            Exception: All FL1F-modules marked with * in above type list may be also used in bridge and deck zones with filter E84113-C-B30 (or equivalent).</p>	<p>02/20027 (E7)</p>