

## 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

Thorsten Wolff

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

Lloyd's Register EMEA

Thorse

Thorsten Wolff Hamburg Technical Support Office Lloyd's Register EMEA

Lloyd's Register EMEA 71 Fenchurch Street, London EC3M 4BS

Lloyd's Register EMEA Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



TYPES continuation

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

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

**Expiry Date** 

03 January 2018

Sheet

2 of 3

Thorsten Wolff
Hamburg Technical Support Office
Lloyd's Register EMEA



RG31.1.2013.12

Thorsten Wolff Hamburg Technical Support Office Lloyd's Register EMEA

Lloyd's Register EMEA 71 Fenchurch Street, London EC3M 4BS

Lloyd's Register EMEA Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



## 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



Thorsten Wolff Hamburg Technical Support Office Lloyd's Register EMEA

Lloyd's Register EMEA 71 Fenchurch Street, London EC3M 4BS

Lloyd's Register EMEA Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

4.5	21
111	5
ļ	ווווו
۲	í

Producer/Licence No.	Item Description	Technical Details	Category/Additional Tests	Remarks	Cert. No.
Idec Corporation 6-64 Nishimiyahara 2-chome Yodogawa-ku, Osaka 532-0004 Japan	Programmable logic controller SmartRelay Types:	Power supply (Vac) 115/230V (Hz) 50/60 (Vdc) 24 V	ENV1 ENV2 ENV3 (2002)	Expires: 03 January 2018	02/20027 (E7)
	Base Modules. FLIE-HI2SND FLIE-H12SCD* FLIE-H12RCA FLIE-H12RCA* FLIE-H12RCA* FLIE-H12RCA*		Low temperature (-25°C/16 hrs)	24V power supply lines are to be protected by Dehn Blitzductor order No. 918 402 / 918 422 (tested) or equivalent. FL1E-H12RCE, FL1F-B12RCE modules are only to be used with 24VDC power supply.	
	FLIE-HI2RCE FLIE-BI2RCE FLIE-BI2RCA FLIE-BI2RCC FLIE-BI2RCE* FLIF-HI2RCE* FLIF-HI2RCC*			FLIx-modules fulfil the EMC requirements for general power distribution zone. Exception: All FLIF-modules marked with * in above type list may be also used in bridge and deck zones with filter B84113-C-B30 (or equivalent).	
	Extension modules: FLIB-M08B1S2 FLIF-M08B1S2 * FLIF-M08D2R2 * FLIF-M08D2R2 * FLIF-M08B2R2 * FLIF-M08B2R2 * FLIF-M08B2R2 * FLIF-M08C2R2 *				
	FLIB-J2B2 * FLIF-J2B2 * FLIF-K2BM2 FLIF-K2BM2 * FLIF-J2BR2 FLIF-J2BR2 FLIF-RD1				***************************************

