



Type Approval Certificate

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.

Manufacturer	IDEC Corporation
Address	2-6-64, Nishimiyahara, Osaka-shi, 532-0004, Japan
Place of Production	Siemens Industrial Automation Products Ltd., Chengdu No 99 Tianyuan Road Hi-tech West, District, Chengdu, 611731, China
Type	Programmable logic controller & I/O Modules
Description	Programmable logic controller SmartRelay
Trade Name	SmartRelay (See Appendix for details)
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.
Ratings	Power supply: 115/240 V AC/DC 24V AC/DC 50/60Hz 24V DC
Additional Tests	Low temperature (-25°C/16 hrs)

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A member of the Lloyd's Register group

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Other Conditions

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

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 Appendix may be also used in bridge and deck zones with filter B84113-C-B30 (or equivalent).

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 Group Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 02/20027(E9)

The Design Appraisal Document LR23269310TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Appendix

Trade Name: SmartRelay

Base Modules:

- FL1F-H12SCD *
- FL1F-H12RCA *
- FL1F-B12RCA *
- FL1F-H12RCE *
- FL1F-B12RCE *
- FL1F-H12RCC *
- FL1F-B12RCC *

Extension modules:

- FL1F-M08B1S2 *
- FL1F-M08D2R2 *
- FL1F-M08B2R2 *
- FL1F-M08C2R2 *
- FL1F-J2B2 *
- FL1F-K2BM2 *
- FL1F-J2BR2
- FL1F-RD1

-End of Appendix-