



Type Approval Certificate Extension

This is to certify that Certificate No. 88/00172(E4) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Elomek Försäljnings AB
PLACE OF PRODUCTION	Kvarnhagsgatan 4 165 54 Hässelby Sweden
DESCRIPTION	Electromagnetic door holders with armature and rocker switch
TYPE	Door holders: GP, GPT, GPM, 720, 720T, 720M, 721, 721T, 721M, 711, 712 Armatures: AG, 718, 722, 719 Rocker switch: 1002
APPLICATION	Marine and offshore applications in Category ENV1, ENV2, ENV3 as defined in LR Type Approval System Test Specification No. 1 2002.

"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."

The attached Design Appraisal Document No. 88/00172(E5) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 88/00172(E4) to which this extension should be attached.

Certificate No.	88/00172(E5)
Issue Date	5 December 2013
Expiry Date	27 April 2018
Sheet	1 of 1

T. Piipponen
Marine Technology & Engineering Services, Southampton
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.



Lloyd's Register EMEA (London Office)

Marine Technology & Engineering Services
71 Fenchurch Street, London, EC3M 4BS
Telephone 020 7709 9166 Fax 020 7488 4796
Email tad@lr.org

Page 1 of 1
Document number 88/00172(E5)
Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 5 December 2013	Quote this reference on all future communications MTES/ETS/TP/WP14754104/W03410141
-------------------------	---

LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002.

Issued to: **ELOMEK FÖRSÄLJNING AB**
for: **ELECTROMAGNETIC DOOR HOLDERS**
TYPE APPROVAL CERTIFICATE No. 88/00172(E5)

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Request form	08 Apr 2013
LR Stockholm email message including attachments	22 Oct 2013
LR Stockholm email clarifying item components	27 Nov 2013

Also all the documentation listed on Design Appraisal Documents associated with Type Approval Certificates Nos. 88/00172, 88/00172(E1), 88/00172(E2), 88/00172(E3) and 88/00172(E4)

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

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

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.

T. Piipponen
Electrotechnical Systems
Marine Technology & Engineering Services/Southampton

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.

This is a copy of an electronic document. In the event of any conflict or ambiguity between the copy and the electronic document, which is retained and published by Lloyd's Register, the original electronic and certified version shall always prevail.

**Part 3
Fire and Gas Detection Alarm and Control Systems (Part 3)**

Producer / Licence No.	Item Description	Technical Details	Category / Additional Tests	Remarks	Cert. No.
<p>Elomek Försäljnings AB, Kvarnhagsgatan 4, 165 54 Håsselby, Sweden.</p>	<p>Electromagnetic door holders with armature and rocker switch, for use in marine fire control systems. Door holders Types: GP, GPT, GPM 720, 720T, 720M, 721, 721T, 721M, 711, 712 Armatures Types: AG, 718, 722, 719 Rocker switch Type: 1002</p>	<p>24 Power supply (Vdc): Type: GP, GPT, GPM, 711, 712 Holding power (N): ≥650 Current (mA): 40 Type: 720, 720T, 720M Holding power (N): ≥1300 Current (mA): 65 Type: 721, 721T, 721M Holding power (N): ≥2000 Current (mA): 160 Type: GP Power supply (Vdc): 48 Type GP Holding power (N): ≥650N Current (mA): 35mA 110 Power supply (Vdc): Type GP Holding power (N): ≥650N Current (mA): 13mA 230 Power supply (Vdc): Type GP Holding power (N): ≥650N Current (mA): 9mA 110 Power supply (Vdc): Type 720 Holding power (N): ≥1300N Current (mA): 22mA 230 Power supply (Vdc): Type 720 Holding power (N): ≥1300N Current (mA): 14mA 110 Power supply (Vdc): Type 721 Holding power (N): ≥2000N Current (mA): 41mA 230 Power supply (Vdc): Type 721 Holding power (N): ≥2000N Current (mA): 21mA</p>	<p>ENV1 ENV2 ENV3 (2002) Low temperature -40°C</p>	<p>Expires: 27 April 2018</p>	<p>88/00172(E5)</p>

Handwritten signature