

CERTIFICATE NUMBER

04-HG443466/1-PDA

DATE

08 June 2009

ABS TECHNICAL OFFICE

Hamburg Engineering Services

CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of
Rafi GmbH & Co. KG - Ravensburg

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate. It will remain valid as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

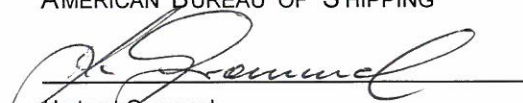
PRODUCT: Control and Indication Components

MODEL: RAFIX 22 QR 1.20.124.---, 1.20.125.---, 1.71.213.---, 1.71.214.---

ABS RULE: 2009 Steel Vessel Rules 1-1-4/7.7, 4-8-3/1.7/1.9/1.11/1.17, 4-9-7/13

OTHER STANDARD: N.A.;

AMERICAN BUREAU OF SHIPPING


Hartmut Grommel
Engineering Type Approval Co-ordinator

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Product: Control and Indication Components

Model: RAFIX 22 QR 1.20.124.---, 1.20.125.---, 1.71.213.---, 1.71.214.---

Intended Service:

Switch control and lamp indication components for installation in electrical panels, tableaux and switchboards.

Description:

Models 1.20.124.---: contact blocks with coupling, screw terminals and lamp sockets.

Models 1.20.125.---: contact blocks with coupling, cage clamp terminals and lamp sockets.

Models 1.71.213.---: lamp sockets with coupling, screw terminals. Models 1.71.214.---: lamp sockets with coupling, cage clamp terminals.

Ratings:

Voltage: 250V, 130V, 42V

Service Restrictions:

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

Each particular application of the components is to be approved together with the specific installations.

Notes / Drawings / Documentation:

This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

Term of Validity:

This Design Assessment Certificate number 04-HG443466/1-PDA, dated 08/Jun/2009 will expire on 07/Jun/2014 or at an earlier date should there be alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2010, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this certificate.

STANDARDS**ABS Rules:**

2009 Steel Vessel Rules 1-1-4/7.7, 4-8-3/1.7/1.9/1.11/1.17, 4-9-7/13

International:

N.A.