

EUROPEAN UNION RECOGNISED ORGANISATION (EU RO) MUTUAL RECOGNITION TYPE APPROVAL CERTIFICATE

Certificate No:
MRA0000033

In accordance with Article 10.1 of EU Regulation 391/2009

This Certificate is issued to
Siemens AG GWA
Amberg, Germany

for
Electrical/Electronic Relays

with type designation(s)
3RS2 Temperature Monitoring Relay

The product is found to comply with
EU RO Mutual Recognition Technical Requirements for Electrical/Electronic Relays

Intended service
The temperature monitoring relays can be used for temperature monitoring in solid, liquid and gaseous media. The temperature is sensed by temperature sensors in the medium (not scope of this certification).

This is to certify:

that the Product referred to herein has been inspected for the Manufacturer, pursuant to the relevant requirements of the European Union Recognised Organisation Mutual Recognition procedure, required by Article 10.1 of EU Regulation 391/2009, and has been found in accordance with those requirements.

This Certificate is valid until **2026-08-29**.

Issued at **Hamburg** on **2021-08-30**

DNV GL local station: **Essen**

for **DNV GL**

Approval Engineer: **Dariusz Lesniewski**

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Joannis Papanuskas
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

3RS2 Temperature Monitoring Relay

NOMENCLATURE BREAKDOWN

3RS2 500 - 1 A W 3 0
I II III IV V VI VII

- I. Basic Type
3RS2 – Temperature Monitoring Relay, new series, °F type
- II. Type
500 - Analog type, multifunctional
600 - Digital type, 1 sensor input, 2 relay output
800 - Digital type, IO-Link version, 1 sensor input, 2 relay output
900 – Sensor extension unit
- III. Terminals
-1 - Screw terminals
-2 - Push-In terminals
- IV. A - 1 change over relay contact
B - 2 change over relay contacts
- V. Supply Voltage
A - 24 V, 0.85 through 1.15 x supply voltage
W – 24 V through 240V, 0.85 through 1.15 x supply voltage
- VI. Voltage
3 – ac 50/60Hz, dc
4 – dc
- VII. Relay contact type
0 – Standard type
- VIII. Manufacturers Identification

Degree of protection: IP20

Firmware version: V1.00

Accessories for 3RS2:

3ZY1311-0AA00	Push-in Lug
3ZY1440-1AA00	Coding Pin
3ZY1122-1BA00	Screw Terminal
3ZY1122-2BA00	Push-in Terminal

Manufactured by

Siemens AG, GWA
Werner-von-Siemens-Str. 48
92220 Amberg
Germany

Application/Limitation

Applicable for a ship as defined in Mutual Recognition Provisions Article 10 Regulation on Common Rules and standards For Ship Inspection and Survey Organizations.

Type Approval documentation

Marking of product

- manufacturer name
- serial number
- type designation
- range
- power supply ratings

Job Id: **262.4-000164-1**
Certificate No: **MRA0000033**

Other Conditions

Environmental test parameters:

Temperature: 5°C / +70°C
Vibration: ±1.6mm / 4.0g
Humidity: 95%RH @ 55°C, damp heat cyclic
EMC: All locations including bridge and open deck
Enclosure: IP20

DNV GL location classes:

B
B
B
B
A

Periodical assessment

complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment will be performed annually and at renewal of the certificate.

END OF CERTIFICATE

Job Id: **262.4-000164-1**
Certificate No: **MRA0000033**

Generic Statement for EU RO MR Type Approval Certificate

When a product is presented with this EU RO MR Type Approval Certificate for given application, its acceptability with regards to the limitations stated in the certificate conditions defined in 1b, 1c and 1d of the applied Technical Requirement will be evaluated by the EU RO in charge of classing the ship or being in charge of the unit/system certification.

In accordance with Article 10 of Regulation (EC) No 391/2009 of the European Parliament and of the Council of 23 April 2009 "on common rules and standards for ship inspection and survey organizations", the following organizations, recognized by the EU on this date, have agreed on the technical and procedural conditions under which they will mutually recognize this certificate:

- American Bureau of Shipping (ABS);
- Bureau Veritas (BV);
- China Classification Society (CCS);
- Croatian Register of Shipping (CRS);
- DNV GL;
- Indian Register of Shipping (IRS);
- Korean Register (KR);
- Lloyd's Register Group Ltd. (LR);
- Nippon Kaiji Kyokai General Incorporated Foundation (ClassNK);
- Polish Register of Shipping (PRS);
- RINA Services S.p.A. (RINA);
- Russian Maritime Register of Shipping (RS).

The scheme for the mutual recognition of class certificates for materials, equipment and components laid down by Article 10(1) of Regulation (EC) No 391/2009 is only enforceable within the Union in respect of ships flying the flag of a Member State. As far as foreign vessels are concerned, the acceptance of relevant certificates remains at the discretion of relevant non-EU flag States in the exercise of their exclusive jurisdiction, notably under the United Nations Convention on the Law of the Sea (UNCLOS). (In accordance with COMMISSION IMPLEMENTING REGULATION (EU) No 1355/2014 amending Regulation (EC) No 391/2009 - recital (25)).