

Certificate



Product Safety

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ID 0600000000

Nr./No.: 968/EZ 111.11/22

| | | | |
|---|---|---|---|
| Prüfgegenstand Product tested | 2-polige monostabile Sicherheitsrelais Monostable 2-pole Safety Relays | Zertifikatsinhaber Certificate holder | Tyco Electronics Austria GmbH Schrackstr. 1 3830 Waidhofen / Thaya Austria |
| Typbezeichnung Type designation | SR2M (V23047), S920, Details see Revision List | | |
| Prüfgrundlagen Codes and standards | IEC 61810-1:2019 IEC 61810-3:2015 | IEC 61810-7:2006 IEC 60947-5-1-1:2016 + Cor.1:2016 + Cor.2:2020, 8.3.3.5.2, 8.3.3.5.3, 8.3.4 (in extracts) | |
| Bestimmungsgemäße Verwendung Intended application | Die Relais der SR2M- und S920-Serie erfüllen die Anforderungen für Elementarrelais nach IEC 61810-1. Die Relais mit 1 Schließer- und 1 Öffnerkontaktpaar erfüllen auch die Anforderungen für Relais mit zwangsgeführten Kontakten vom Typ A gemäß IEC 61810-3. Die Relais mit 2 Wechslern erfüllen die Anforderungen des Typs B. In sicherheitsrelevanten Stromkreisen darf nur 1 Schließer oder 1 Öffner der 2 Wechsler verwendet werden. The relays of the SR2M and S920-series comply with the requirements for elementary relays in accordance with IEC 61810-1. The relays with 1 NO 1 NC contact pair also comply with the requirements for relays with forcibly guided contacts of type A in accordance with IEC 61810-3. The relays with 2 CO contacts fulfil the requirements of type B. In safety-relevant circuits, only 1 NO or 1 NC contact of the 2 CO contacts may be used. | | |
| Besondere Bedingungen Specific requirements | Die Angaben und Hinweise im Datenblatt sind zu beachten. The information and instructions in the data sheet shall be considered. | | |

Der Ausstellung dieses Zertifikates liegt eine Evaluierung entsprechend dem Zertifizierungsprogramm CERT FSP1 V1.0:2017 in der aktuellen Version zugrunde, deren Ergebnisse im Bericht Nr. 968/EZ 111.11/22 vom 21.10.2022 dokumentiert sind. Dieses Zertifikat ist nur gültig für Erzeugnisse, die mit dem Prüfgegenstand übereinstimmen.

The issue of this certificate is based upon an evaluation in accordance with the Certification Program CERT FSP1 V1.0:2017 in its actual version, whose results are documented in Report No. 968/EZ 111.11/22 dated 2022-10-21. This certificate is valid only for products, which are identical with the product tested.

TÜV Rheinland Industrie Service GmbH
Bereich Automation
Funktionale Sicherheit

Köln, 2022-10-26


Certificate for Body Safety & Security for Automation & Grid

Dipl.-Ing. (FH) Wolf Rückwart

LICENCE CERTIFICATE

for TÜV Rheinland Conformity Mark

No. 968/EZ 111.11/22

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|--|--|--|-----------------------------------|---------------|--------------|--|------------------|---------|--|------------------------|----|-----------------------|--|----|-------------------------------------|----------------|-------------|--|------------------|-------|------------|--|-------|------------|-------------------|---------------------------------------|--|--|--|--|
| Licence Holder: Tyco Electronics Austria GmbH Schrackstr. 1 3830 Waidhofen / Thaya Austria | | Manufacturer / Manufacturing Plant: Lexa & Posel s.r.o. Hamr-Kosky 148 37806 Suchdol nad Luznici Czech Republic | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date of Application: 2022-09-21 | File Ref.: 968/EZ 111.11/22 | Date of Issue: 2022-10-26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conformity Mark: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Product Safety www.tuv.com ID 0600000000 | | The holder of this Licence Certificate is authorized to affix the TÜV Rheinland Conformity Mark shown on this page on products that correspond to the certified product described below and to use it in print and electronic media for information and advertising purposes for the certified product. All provisions of the currently valid Regulation for Certification and Conformity Mark Regulation must be observed. The validity for use of the Conformity Mark is dependent on the existence of a valid certificate for the certified product. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Annual Fee Units for Use of the Conformity Mark: | | | Units of Fee: 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Certified Product, Identification of the Device: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kind of Product: | Monostable 2-pole Safety Relays | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type Designation: | SR2M (V23047), S920, Details see Revision List | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Technical Data: | <table> <tr> <td>Coil Voltage:</td> <td colspan="2">5 to 110 VDC</td> </tr> <tr> <td>Operative Range:</td> <td colspan="2">Class 2</td> </tr> <tr> <td>Contact Configuration:</td> <td>01</td> <td>2 change over contact</td> </tr> <tr> <td></td> <td>11</td> <td>1 N.O. contacts and 1 N.C. contacts</td> </tr> <tr> <td>Contact Rating</td> <td colspan="2">7 A 250 VAC</td> </tr> <tr> <td>Contact Material</td> <td>S920:</td> <td>AgNi 90/10</td> </tr> <tr> <td></td> <td>SR2M:</td> <td>AgNi 90/10</td> </tr> <tr> <td>Design Documents:</td> <td colspan="2">S920_spec_A2_2158401.pdf / 2020-09-21</td> </tr> <tr> <td></td> <td colspan="2">SR2M Explosion Diagram.pd / 2021-09-21</td> </tr> </table> | | | Coil Voltage: | 5 to 110 VDC | | Operative Range: | Class 2 | | Contact Configuration: | 01 | 2 change over contact | | 11 | 1 N.O. contacts and 1 N.C. contacts | Contact Rating | 7 A 250 VAC | | Contact Material | S920: | AgNi 90/10 | | SR2M: | AgNi 90/10 | Design Documents: | S920_spec_A2_2158401.pdf / 2020-09-21 | | | SR2M Explosion Diagram.pd / 2021-09-21 | |
| Coil Voltage: | 5 to 110 VDC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operative Range: | Class 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact Configuration: | 01 | 2 change over contact | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | 1 N.O. contacts and 1 N.C. contacts | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact Rating | 7 A 250 VAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact Material | S920: | AgNi 90/10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SR2M: | AgNi 90/10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Design Documents: | S920_spec_A2_2158401.pdf / 2020-09-21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SR2M Explosion Diagram.pd / 2021-09-21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Remarks: | Report-No. 968/EZ 111.11/22 dated 2022-10-21 and Certificate No.: 968/EZ 111.11/22 dated 2022-10-26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TÜV Rheinland Industrie Service GmbH
 Bereich Automation
 Funktionale Sicherheit
 Am Grauen Stein, 51105 Köln



2022-10-26

Date

Certification Body
 Safety & Security for Automation & Grid

Dipl.-Ing. (FH) Wolf Rückwart



Revision List
referred to on Certificate No.: 968/EZ 111.11/22



Product Tested: Monostable 2-pole Safety Relays SR2M (V23047), S920

Safety related modules / components

| <i>Elektromechanische Elementarrelais</i> Electromechanical elementary relays | | <i>Typenschlüssel SR2M</i> Type Designation SR2M | | | Report-No.: | Certification Status | |
|---|---|--|--|--|--|-----------------------------|-------|
| Beispiel: Example: | | <u>V23047</u> - <u>A1</u> <u>012</u> - <u>A</u> <u>5</u> <u>01</u> <u>####</u> I II III IV V VI VII | | | | | |
| I | Grundtype Basic series | V23047 (SR2M) | | | | | |
| II | Bauform und Ausführung Version and Design | A1 PCB-Ausführung, stehend; PCB-Type, Upright; | RT III – waschdicht RT III – wash tight | | | | |
| | | P1 PlugIn Ausführung; stehend PlugIn-Type, Upright; | RT II – lötstraßenfest RT II – flux proofed | Alternativ: Verwendung in PCB Alternative: Use in PCB | RTII – lötstraßenfest RTII – flux proofed | | |
| IV | Spulenspannung und Spulencode Coil voltage and coil code | Spulenspannung / V Coil Voltage / V | Spulencode Coil code | Bemessungsverbrauch der Spule / mW ± 10 % Rated power of the coil / mW ± 10 % | | | |
| | | DC | 5 | 005 | 700 | 968/EZ 111.07/13 | Valid |
| | | DC | 6 | 006 | 700 | 968/EZ 111.07/13 | Valid |
| | | DC | 9 | 009 | 700 | 968/EZ 111.07/13 | Valid |
| | | DC | 12 | 012 | 700 | 968/EZ 111.07/13 | Valid |
| | | DC | 15 | 015 | 700 | 968/EZ 111.07/13 | Valid |
| | | DC | 18 | 018 | 700 | 968/EZ 111.07/13 | Valid |
| | | DC | 21 | 021 | 700 | 968/EZ 111.07/13 | Valid |
| | | DC | 24 | 024 | 700 | 968/EZ 111.07/13 | Valid |
| | | DC | 36 | 036 | 700 | 968/EZ 111.07/13 | Valid |
| | | DC | 40 | 040 | 700 | 968/EZ 111.07/13 | Valid |
| | | DC | 48 | 048 | 700 | 968/EZ 111.07/13 | Valid |
| | | DC | 60 | 060 | 700 | 968/EZ 111.07/13 | Valid |
| | | DC | 74 | 074 | 700 | 968/EZ 111.10/17 | Valid |
| | | DC | 80 | 080 | 700 | 968/EZ 111.07/13 | Valid |
| | | DC | 110 | 110 | 700 | 968/EZ 111.07/13 | Valid |



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Product Tested: Monostable 2-pole Safety Relays SR2M (V23047), S920

| Elektromechanische Elementarrelais Electromechanical elementary relays | | Typenschlüssel SR2M Nomenclature SR2M | | | |
|---|---|--|--|--|--|
| V | Kontaktfedersatz <i>Contact spring assmbly</i> | A | Einfachkontakt <i>Single contact</i> | | |
| VI | Kontaktmaterial <i>Contact material</i> | 5 | AgNi 90/10 <i>AgNi 90/10</i> | | |
| VII | Kontaktart <i>Contact type</i> | 01 | 2 Wechsler (symmetrisch) <i>2 C.O. Contact (symmetrical)</i> | | |
| | | 11 | 1 Schließer + 1 Öffner (asymmetrisch) <i>1 N.O. Contact + 1 N.C. Contact (asymmetrical)</i> | | |
| VIII | Zusätzliche Herstellerangaben <i>Additional manufacturer indications</i> | #### | Wahlweise bis zu 4 Zahlen und/oder Buchstaben für interne Kennzeichnung des Herstellers <i>May be followed by up to four numbers or/and letters only for manufacturer internal identification</i> | | |



Revision List
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Product Tested: Monostable 2-pole Safety Relays SR2M (V23047), S920

| <i>Elektromechanische Elementarrelais</i> Electromechanical elementary relays | <i>Typenschlüssel S920</i> Type Designation S920 | | | Report-No.: | Certification Status | | | | | |
|---|--|--|--------------------------------|----------------|---|------------------|-------------------|---------------------|--|--|
| Beispiel: <i>Example:</i> | <u>S9</u> I | <u>20</u> II | - <u>X</u> III | <u>0</u> IV | <u>4</u> V | - <u>D</u> VI | <u>024</u> VII | <u>####</u> VIII | | |
| I Grundtype <i>Basic series</i> | S9 | | | | | | | | | |
| II Ausführung <i>Version</i> | 20 | Standard Version (waschdicht) <i>Normal Version (washtight)</i> | | | | | | | | |
| III Kontaktausführung <i>Contact type</i> | X | 1 Schließer + 1 Öffner (asymmetrisch) 1 N.O. Contact + 1 N.C. Contact (asymmetrical) | | | | | | | | |
| IV Kontaktmaterial-Plattierung <i>Contact material plating</i> | 0 1 to 2 | Alle Kontakte Au plattiert (2,5µ) / Contacts 1 bis 2 Au plattiert (2,5µ) / <i>All contacts Au plated (2.5µ)</i> <i>Contacts 1 to 2 Au plated (2.5µ)</i> | | | | | | | | |
| V Kontaktmaterial <i>Contact material</i> | 4 | AgNi 90/10 AgNi 90/10 | | | | | | | | |
| VI Spulenversion <i>Coil version</i> | D | DC Spulen, 700mW DC coil, 700mW | | | | | | | | |
| VII Spulenspannung und Spulencode <i>Coil voltage and coil code</i> | Spulenspannung / V <i>Coil Voltage / V</i> | | Spulencode <i>Coil code</i> | | Bemessungsverbrauch der Spule / mW ± 10 % <i>Rated power of the coil / mW ± 10 %</i> | | | | | |
| | DC | 5 | 005 | | 700 | | 968/EZ 111.08/14 | | | |
| | DC | 6 | 006 | | 700 | | 968/EZ 111.08/14 | | | |
| | DC | 9 | 009 | | 700 | | 968/EZ 111.08/14 | | | |
| | DC | 12 | 012 | | 700 | | 968/EZ 111.08/14 | | | |
| | DC | 15 | 015 | | 700 | | 968/EZ 111.08/14 | | | |
| | DC | 18 | 018 | | 700 | | 968/EZ 111.08/14 | | | |
| | DC | 21 | 021 | | 700 | | 968/EZ 111.08/14 | | | |
| | DC | 24 | 024 | | 700 | | 968/EZ 111.08/14 | | | |
| | DC | 36 | 036 | | 700 | | 968/EZ111.08/14 | | | |
| | DC | 40 | 040 | | 700 | | 968/EZ 111.08/14 | | | |
| | DC | 48 | 048 | | 700 | | 968/EZ 111.08/14 | | | |
| | DC | 60 | 060 | | 700 | | 968/EZ 111.08/14 | | | |
| | DC | 74 | 074 | | 700 | | 968/EZ 111.10/17 | | | |
| | DC | 80 | 080 | | 700 | | 968/EZ 111.08/14 | | | |
| DC | 110 | 110 | | 700 | | 968/EZ 111.08/14 | | | | |



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| Herstellungscod | <u>4W</u> I | <u>06</u> II | <u>23</u> III | |
|---|----------------|---|------------------|--|
| I Produktionsverantwortung <i>Responsibility of production</i> | 4W | Waidhofen / Thaya <i>Waidhofen / Thaya</i> | | |
| II Herstellungsjahr <i>Year of manufacturing</i> | 06 | Letzten beiden Stellen des Produktionsjahres <i>Last two digits from production year</i> ... | | |
| III Herstellungswoche <i>Week of manufacturing</i> | 23 | 1 = Kalenderwoche 1 <i>1 = calendar week 1</i> 2 = Kalenderwoche 2 <i>2 = calendar week 2</i> ... | | |

Revision:

| Date | Rev. | Description / Changes | Author |
|------------|------|---|---------|
| 2013-04-26 | 1.0 | Initial creation based on based on Report-No.: 968/EZ 111.07/13 | jl/A-FS |
| 2014-02-28 | 1.1 | S920-Update based on Report-No.: 968/EZ 111.08/14 | jz/A-FS |
| 2017-07-24 | 2.0 | Inclusion of 74V Coil Voltage and update assessment for a prolongation of the validity of a certificate | jz/A-FS |
| 2022-10-21 | 3.0 | Renewal of Certificate | |