

Certificate



Product Safety

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

**Prüfgegenstand
Product tested**

2-polige monostabile Sicherheitsrelais
Monostable 2-pole Safety Relays

**Zertifikats-
inhaber
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

Certification Body Safety & Security for Automation & Grid

Dipl.-Ing. (FH) Wolf Rückwart

LICENCE CERTIFICATE

for TÜV Rheinland Conformity Mark

No. 968/EZ 111.11/22

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:	File Ref.:	Date of Issue:																																					
2022-09-21	968/EZ 111.11/22	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. Link for download: http://fs-products.tuvasi.com/tm/2491																																							
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 style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Coil Voltage:</td> <td colspan="3">5 to 110 VDC</td> </tr> <tr> <td>Operative Range:</td> <td colspan="3">Class 2</td> </tr> <tr> <td>Contact Configuration:</td> <td>01</td> <td colspan="2">2 change over contact</td> </tr> <tr> <td></td> <td>11</td> <td colspan="2">1 N.O. contacts and 1 N.C. contacts</td> </tr> <tr> <td>Contact Rating</td> <td colspan="3">7 A 250 VAC</td> </tr> <tr> <td>Contact Material</td> <td>S920:</td> <td colspan="2">AgNi 90/10</td> </tr> <tr> <td></td> <td>SR2M:</td> <td colspan="2">AgNi 90/10</td> </tr> <tr> <td>Design Documents:</td> <td colspan="3">S920_spec_A2_2158401.pdf / 2020-09-21</td> </tr> <tr> <td></td> <td colspan="3">SR2M Explosion Diagram.pdf / 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.pdf / 2021-09-21		
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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

Elektromechanische Elementarrelais Electromechanical elementary relays		Typenschlüssel SR2M 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; P1 PlugIn Ausführung; stehtendPlugIn-Type, Upright;		RT III – waschdicht RT III – wash tight 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 assambly</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>		



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

Elektromechanische Elementarrelais Electromechanical elementary relays		Typenschlüssel S920 Type Designation S920								Report-No.:	Certification Status		
Beispiel: Example:		<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 Basic series	S9											
II	Ausführung Version	20	Standard Version (waschdicht) Normal Version (washtight)										
III	Kontaktausführung Contact type	X	1 Schließer + 1 Öffner (asymmetrisch) 1 N.O. Contact + 1 N.C. Contact (asymmetrical)										
IV	Kontaktmaterial-Plattierung Contact material plating	0	Alle Kontakte Au plattiert (2,5µ)				/	All contacts Au plated (2.5µ)					
		1 to 2	Kontakte 1 bis 2 Au plattiert (2,5µ)				/	Contacts 1 to 2 Au plated (2.5µ)					
V	Kontaktmaterial Contact material	4	AgNi 90/10 AgNi 90/10										
VI	Spulenversion Coil version	D	DC Spulen, 700mW DC coil, 700mW										
VII	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 111.08/14		
		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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Herstellungskode		<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	