

# Certificate



Product Safety

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ID 060000000

**Nr./No.: 968/EL 350.08/22**

<b>Prüfgegenstand</b> <b>Product tested</b>	6-polige monostabile Sicherheitsrelais Monostable 6-pole Safety Relays	<b>Zertifikats- inhaber</b> <b>Certificate holder</b>	Tyco Electronics Austria GmbH Schrackstr. 1 3830 Waidhofen / Thaya Austria
<b>Typbezeichnung</b> <b>Type designation</b>	SR6, S960, Details see Revision List		
<b>Prüfgrundlagen</b> <b>Codes and standards</b>	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)	
<b>Bestimmungsgemäße Verwendung</b> <b>Intended application</b>	Die Relais SR6 und S960 erfüllen die Anforderungen an Elementarrelais und im Speziellen an Relais mit zwangsgeführten Kontakten (Typ A) gemäß den genannten Prüfgrundlagen. The relays SR6 and S960-series comply with the requirements for elementary relays (type A) and in particular for relays with forcibly guided contacts in accordance with the requirements of the applied standards.		
<b>Besondere Bedingungen</b> <b>Specific requirements</b>	Die Hinweise in den zugehörigen Relaisdatenblättern zu berücksichtigen. The instructions of the associated data sheets 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/EL 350.08/22 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/EL 350.08/22 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 Body Safety & Security for Automation & Grid

Dipl.-Ing. (FH) Wolf Rückwart

# LICENCE CERTIFICATE

## for TÜV Rheinland Conformity Mark

## No. 968/EL 350.08/22

<b>Licence Holder:</b> Tyco Electronics Austria GmbH Schrackstr. 1 3830 Waidhofen / Thaya Austria		<b>Manufacturer / Manufacturing Plant:</b> Lexa & Posel s.r.o. Hamr-Kosky 148 37806 Suchdol nad Luznici Czech Republic															
<b>Date of Application:</b> 2022-09-21	<b>File Ref.:</b> 968/EL 350.08/22	<b>Date of Issue:</b> 2022-10-26															
<b>Conformity Mark:</b>																	
 <p>Product Safety</p> <p>www.tuv.com ID 0600000000</p>		<p>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.</p> <p>The validity for use of the Conformity Mark is dependent on the existence of a valid certificate for the certified product.</p>															
Link for download: <a href="http://fs-products.tuvasi.com/tm/2491">http://fs-products.tuvasi.com/tm/2491</a>																	
<b>Annual Fee Units for Use of the Conformity Mark:</b>			<b>Units of Fee:</b> <b>10</b>														
<b>Certified Product, Identification of the Device:</b>																	
<b>Kind of Product:</b>	Monostable 6-pole Safety Relays																
<b>Type Designation:</b>	SR6, S960, Details see Revision List																
<b>Technical Data:</b>	Coil Voltage: 5 to 110 VDC Operative Range: Class 2 Contact Configuration: <table border="0" style="width: 100%;"> <tr> <td style="width: 100px;">A</td> <td>3 N.O. contacts and 3 N.C. contacts</td> </tr> <tr> <td>B</td> <td>4 N.O. contacts and 2 N.C. contacts</td> </tr> <tr> <td>C</td> <td>5 N.O. contacts and 1 N.C. contact</td> </tr> <tr> <td>D</td> <td>2 N.O. contacts and 2 N.C. contacts (without pole No. 3 and 4)</td> </tr> <tr> <td>M</td> <td>3 N.O. contacts and 1 N.C. contacts (withour pole No. 3 and 4)</td> </tr> <tr> <td>U</td> <td>3 N.O. contacts and 3 N.C. contacts (crossed pin layout)</td> </tr> <tr> <td>V</td> <td>4 N.O. contacts and 2 N.C. contacts (crossed pin layout)</td> </tr> </table>			A	3 N.O. contacts and 3 N.C. contacts	B	4 N.O. contacts and 2 N.C. contacts	C	5 N.O. contacts and 1 N.C. contact	D	2 N.O. contacts and 2 N.C. contacts (without pole No. 3 and 4)	M	3 N.O. contacts and 1 N.C. contacts (withour pole No. 3 and 4)	U	3 N.O. contacts and 3 N.C. contacts (crossed pin layout)	V	4 N.O. contacts and 2 N.C. contacts (crossed pin layout)
A	3 N.O. contacts and 3 N.C. contacts																
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U	3 N.O. contacts and 3 N.C. contacts (crossed pin layout)																
V	4 N.O. contacts and 2 N.C. contacts (crossed pin layout)																
	Contact Rating 8 A 250 VAC Contact Material SR6: AgSnO <sub>2</sub> and AgSnO <sub>2</sub> hard gold plated 0.2-0.3µm S960: AgSnO <sub>2</sub> + 2,5µm Au																
	Design Documents: S960_Spec_A2_2158400.pdf / 2020-09-21 SR6 Explosion Diagram.pdf / 2022-09-21																
<b>Special Remarks:</b>	Report-No. 968/EL 350.08/22 dated 2022-10-21 and Certificate No.: 968/EL 350.08/22 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/EL 350.08/22



**Product Tested: Monostable 6-pole Safety Relays SR6, S960**

**Safety related modules / components**

<b>Elektromechanische Elementarrelais</b> <i>Electromechanical elementary relays</i>	<b>Typenschlüssel SR6</b> <i>Nomenclature SR6</i>
Beispiel: <i>Example:</i>	<b>SR    6    B    4    005    ####</b> <b>  I    II    III   IV    V    VI</b>
I    Grundtype <i>Basic series</i>	SR
II   Ausführung <i>Version</i>	6    Standard Version (waschdicht) <i>Normal Version (washtight)</i>
III   Kontaktausführung <i>Contact type</i>	A    3 Schließer und 3 Öffner <i>3 N.O. contacts and 3 N.C. contacts</i> B    4 Schließer und 2 Öffner <i>4 N.O. contacts and 2 N.C. contacts</i> C    5 Schließer und 1 Öffner <i>5 N.O. contacts and 1 N.C. contact</i> D    2 Schließer und 2 Öffner (ohne Pol Nr. 3 und 4) <i>2 N.O. contacts and 2 N.C. contacts (without pole No. 3 and 4)</i> M    3 Schließer und 1 Öffner (ohne Pol Nr. 3 und 4) <i>3 N.O. contacts and 1 N.C. contacts (withour pole No. 3 and 4)</i> U    3 Schließer und 3 Öffner (versetzte Pinanordnung) <i>3 N.O. contacts and 3 N.C. contacts (crossed pin layout)</i> V    4 Schließer und 2 Öffner (versetzte Pinanordnung) <i>4 N.O. contacts and 2 N.C. contacts (crossed pin layout)</i>
IV   Kontaktmaterial <i>Contact material</i>	4    AgSnO <sub>2</sub> <i>AgSnO<sub>2</sub></i> 6    AgSnO <sub>2</sub> hv (0,2 – 0,3 µm Au) <i>AgSnO<sub>2</sub> hv (0,2 – 0,3 µm Au)</i>



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**Product Tested: Monostable 6-pole Safety Relays SR6, S960**

<b>Elektromechanische Elementarrelais Electromechanical elementary relays</b>		<b>Typenschlüssel SR6 Nomenclature SR6</b>					
V	Spulenspannungen und Spulencodierung <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>	
				Standard <i>Standard</i>	Sensitiv <i>Sensitive</i>	Standard <i>Standard</i>	Sensitiv <i>Sensitive</i>
		DC	5	005	K05	1.200	800
		DC	6	006	K06	1.200	800
		DC	9	009	K09	1.200	800
		DC	12	012	K12	1.200	800
		DC	15	015	K15	1.200	800
		DC	18	018	K18	1.200	800
		DC	21	021	K21	1.200	800
		DC	24	024	K24	1.200	800
		DC	30	030	K30	1.200	800
		DC	36	036	K36	1.200	800
		DC	40	040	K40	1.200	800
		DC	48	048	K48	1.200	800
		DC	60	060	K60	1.200	800
DC	85	085	K85	1.200	800		
DC	110	110	L10	1.200	800		
VI	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 6-pole Safety Relays SR6, S960**

Crossreferenzliste / <i>Cross reference:</i>	V23050 - A1•(0;1)•• - A533 ##### V23050 - A1•(0;1)•• - A542 ##### V23050 - A1•(0;1)•• - A551 #####	entspricht / <i>equivalent to</i> entspricht / <i>equivalent to</i> entspricht / <i>equivalent to</i>	SR 6A4 •(0;1)•• ##### SR 6B4 •(0;1)•• ##### SR 6C4 •(0;1)•• #####
<b>Elektromechanische Elementarrelais</b> <i>Electromechanical elementary relays</i>	<b>Typenschlüsse S960</b> <i>Nomenclature S960</i>		
<b>Beispiel:</b> <i>Example:</i>	<b>S9</b> <b>60</b> <b>B</b> <b>U</b> <b>3</b> <b>D</b> <b>024</b> <b>0</b> <b>0</b> <b>0</b> <b>####</b> <b>I</b> <b>II</b> <b>III</b> <b>IV</b> <b>V</b> <b>VI</b> <b>VII</b> <b>VIII</b> <b>IX</b> <b>X</b> <b>XI</b>		
I Grundtype <i>Basic series</i>	S9		
II Ausführung <i>Version</i>	60      Standard Version (waschdicht) <i>Normal Version (washtight)</i>		
III Kontaktausführung <i>Contact type</i>	A      3 Schließer und 3 Öffner <i>3 N.O. contacts and 3 N.C. contacts</i> B      4 Schließer und 2 Öffner <i>4 N.O. contacts and 2 N.C. contacts</i> C      5 Schließer und 1 Öffner <i>5 N.O. contacts and 1 N.C. contact</i> D      2 Schließer und 2 Öffner (ohne Pol Nr. 3 und 4) <i>2 N.O. contacts and 2 N.C. contacts (without pole No. 3 and 4)</i> M      3 Schließer und 1 Öffner (ohne Pol Nr. 3 und 4) <i>3 N.O. contacts and 1 N.C. contacts (withour pole No. 3 and 4)</i> U      3 Schließer und 3 Öffner (versetzte Pinanordnung) <i>3 N.O. contacts and 3 N.C. contacts (crossed pin layout)</i> V      4 Schließer und 2 Öffner (versetzte Pinanordnung) <i>4 N.O. contacts and 2 N.C. contacts (crossed pin layout)</i>		



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<b>Elektromechanische Elementarrelais</b> <b>Electromechanical elementary relays</b>		<b>Typenschlüssel S960</b> <b>Nomenclature S960</b>			
IV	Kontaktmaterial-Plattierung Contact material plating	0	Alle Kontakte Au plattiert (2,5µ)	/	All contacts Au plated (2.5µ)
		1 to 6	Kontakte 1 bis 6 Au plattiert (2,5µ)	/	Contacts 1 to 6 Au plated (2.5µ)
		A	Alle Schließer Au plattiert (2,5µ)	/	All N.O. contacts Au plated (2.5µ)
		B	Alle Öffner Au plattiert (2,5µ)	/	All N.C. contacts Au plated (2.5µ)
		R	Kontakte 1+2 Au plattiert (2,5µ)	/	Contacts 1+2 Au plated (2.5µ)
		S	Kontakte 3+4 Au plattiert (2,5µ)	/	Contacts 3+4 Au plated (2.5µ)
		T	Kontakte 1+4 Au plattiert (2,5µ)	/	Contacts 1+4 Au plated (2.5µ)
		U	Kontakte 2+3+5+6 Au plattiert (2,5µ)	/	Contacts 2+3+5+6 Au plated (2.5µ)
V	Kontaktmaterial Contact material	3	AgSnO <sub>2</sub> AgSnO <sub>2</sub>		
VI	Spulenversion Coil version	L	1200mW		
		D	800mW		



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<b>Elektromechanische Elementarrelais</b> <i>Electromechanical elementary relays</i>		<b>Typenschlüssel S960</b> <i>Nomenclature S960</i>		
VII	Spulenspannungen und Spulencodierung <i>Coil voltage and coil code</i>	Spulenspannung / V <i>Coil Voltage / V</i>		
		Spulencode <i>Coil code</i>		
		DC	5	005
		DC	6	006
		DC	9	009
		DC	12	012
		DC	15	015
		DC	18	018
		DC	21	021
		DC	24	024
		DC	30	030
		DC	36	036
		DC	40	040
		DC	48	048
		DC	60	060
		DC	85	085
DC	110	110		



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<b>Elektromechanische Elementarrelais</b> <i>Electromechanical elementary relays</i>		<b>Typenschlüssel S960</b> <i>Nomenclature S960</i>	
VIII	Schutzart <i>Category Of Protection</i>	0	RT III, Standard (waschdicht) <i>RT III, Standard (washtight)</i>
IX	Elektrische Eigenschaften <i>Electrical Features</i>	0	Standard (keine Besonderen) <i>Standard (none)</i>
X	Mechanische Eigenschaften <i>Mechanical Features</i>	0	Standard (keine Besonderen) <i>Standard (none)</i>
XI	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>

Anmerkung:  
Note:

Die Typ-Bezeichnung reicht bis zur letzten signifikanten Stelle (signifikant = nicht "0"). Die weiteren Stellen der Typenbezeichnung können entfallen, sofern diese zusammenhängend als Code „0“ ausgewiesen sind.

*The type designation reaches to the last significant digit (significant = not being "0"). Further Code "0" sticked-together-digits can be omitted.*

**Revision:**

Date	Rev.	Description / Changes	Author
2009-01-20	1.0	Initial creation upon inspection 968/EL 350.05/09	cj/A-FS
2013-11-30	1.1	No technical change, formatting and style editorially revised, see 968/EL 350.06/13	cj/A-FS
2017-07-07	2.0	No technical change, update assessment for a prolongation of the validity of a certificate	jz/A-FS
2022-10-21	3.0	No technical change, update assessment for a prolongation of the validity of a certificate	jz/A-FS