

# S-DIAS Safety Relay Output Module

## SRO 021



with 2 safe outputs

The S-DIAS Safety SRO 021 relay output module has the safety integrity level SIL3 (EN/IEC 62061) or Performance level e (PL e) (EN ISO 13849-1/-2).

The safe outputs are used for the safety related output of two actuator signals, for example to control relays, valves, etc.

### Relay Output Specifications

Number	2	
Configuration	two-channel	
Voltage range	maximum +30 V	
Contact current	maximum 6 A by 55 °C maximum 4 A by 60 °C	
Miscellaneous	no protective circuit	

### Electrical Requirements

Voltage supply from Safety bus	+12 V	
Current consumption on the Safety bus (+12 V power supply)	typically 30 mA	maximum 40 mA
Voltage supply from Safety bus	+24 V	
Current consumption on the Safety bus (+24 V power supply)	typically 90 mA	maximum 100 mA

### Article Number and Miscellaneous

Article number	20-893-021	
Dimensions	25 x 104.2 x 72 mm (W x H x D)	
Standard	EN 62061 SIL 3 EN ISO 13849-1 PL e/Kat. 4 UL 508 (E247993)	
Approvals	CE, TÜV EG-Baumustergeprüft, cUL <sub>US</sub>	

### Environmental Conditions

Storage temperature	-20 ... +85 °C	
Environmental temperature	0 ... +55 °C +55 ... +60 °C with derating since HW version 3.10	
Humidity	0-95 %, non-condensing	
Installation altitude above sea level	0-2000 m without derating > 2000 m with derating of the maximum environmental temperature by 0.5 °C per 100 m	
Operating conditions	pollution degree 2	
EMC resistance	in accordance with 61000-6-7:2015 (Generic standards - Immunity requirements for equipment intended to perform functions in safety-related systems (functional safety) at industrial locations) in accordance with EN 61000-6-2:2007 (industrial area) (increased requirements in accordance with IEC 62061)	
EMC noise generation	in accordance with EN 61000-6-4:2007 (industrial area)	
Vibration resistance	EN 60068-2-6	3,5 mm from 5-8.4 Hz 1 g from 8.4-150 Hz
Shock resistance	EN 60068-2-27	15 g
Protection type	EN 60529	IP20