

# ST-REL7-HG110/4X21 - Relay connectors



2899303

<https://www.phoenixcontact.com/us/products/2899303>

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Relay connector, equipped with Hengstler miniature round relay, contacts (AgSnO<sub>2</sub>+Au): small to large loads, 4 changeover contacts, input voltage 110 V DC, with LED display, pluggable into basic terminal blocks

The figure shows version ST-REL 7-HG 24/4X21

## Commercial data

Item number	2899303
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	C460
Product key	DK61B2
GTIN	4017918078829
Weight per piece (including packing)	99.56 g
Weight per piece (excluding packing)	92.8 g
Customs tariff number	85364900
Country of origin	DE

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## Technical data

### Product properties

Product type	Relay Module
Operating mode	100% operating factor
Mechanical service life	approx. $10^7$ cycles

### Insulation characteristics

Overvoltage category	II
Pollution degree	2

### Data management status

Date of last data management	01.04.2026
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### Electrical properties

Maximum power dissipation for nominal condition	0.99 W
Test voltage (Winding/contact)	2 kV AC (50 Hz, 1 min., winding/contact)
Test voltage (Changeover contact/changeover contact)	2 kV AC (50 Hz, 1 min., changeover contact/changeover contact)

### Input data

#### Coil side

Nominal input voltage $U_N$	110 V DC
Input voltage range	88 V DC ... 121 V DC (20 °C)
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at $U_N$	9 mA
Typical response time	15 ms (with DC)
Typical release time	15 ms (with DC)
Protective circuit	Damping diode, polarity protection; Damping diode, polarity protection diode
Operating voltage display	yes

### Output data

#### Switching

Contact switching type	4 changeover contacts
Type of switch contact	Single contact
Contact material	AgSnO, hard gold-plated
Maximum switching voltage	250 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	6 A
Interrupting rating (ohmic load) max.	120 W (at 24 V DC) 180 W (at 48 V DC) 105 W (at 60 V DC) 60 W (at 110 V DC)

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	90 W (at 220 V DC)
	1250 VA (for 250 V AC)

## Dimensions

### Item dimensions

Width	45.6 mm
Height	33 mm
Depth	66.5 mm

## Material specifications

Color	green (RAL 6021)
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## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

## Standards and regulations

Standards/regulations	IEC 60664
	IEC 60664A
	DIN VDE 0110
	DIN VDE 0109-11, draft
	DIN VDE 0160 (in relevant parts)

## Mounting

Mounting type	Plug-in mounting
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## Drawings

Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

### ETIM

ETIM 10.0	EC001437
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### UNSPSC

UNSPSC 21.0	39122300
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	76a95265-6763-4539-821b-bee829001df0

### EF3.1 Climate Change

CO2e kg	8.766 kg CO2e
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