

Miniature solid-state relay - SIM-EI- 12DC/TTL/100 - 2271141


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Input solid-state relay, with protective circuit in input and output circuits, input: 12 V DC, output: TTL logic level, max. 100 mA

The illustration shows version SIM-EI- 5DC/TTL/100

Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 054182
GTIN	4017918054182
Weight per Piece (excluding packing)	21.090 g
Custom tariff number	85364190
Country of origin	Germany

Technical data

Dimensions

Width	13 mm
Height	29 mm
Depth	25 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Input data

Nominal input voltage U_N	12 V AC
Input voltage range in reference to U_N	0.9 ... 1.1

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Input data

Input voltage range	10.8 V DC ... 13.2 V DC
Switching threshold "0" signal in reference to U_N	≤ 0.4
Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical input current at U_N	5.7 mA
Type of protection	Reverse polarity protection
Protective circuit/component	Polarity protection diode
Transmission frequency	4000 Hz

Output data

Output voltage range	3 V DC ... 5.25 V DC
Limiting continuous current	100 mA
Fan out	1
Voltage drop at max. limiting continuous current	0.3 V
Output circuit	3-conductor, ground-referenced
Type of protection	Reverse polarity protection
	Free running
Protective circuit/component	Polarity protection diode
	Damping diode
Output resistor	approx. 390 Ω

General

Test voltage input/output	2.5 kV (50 Hz, 1 min.)
Mounting position	any
Assembly instructions	Can be aligned with 2 mm spacing
Standards/regulations	DIN VDE 0110

Standards and Regulations

Standards/regulations	DIN VDE 0110
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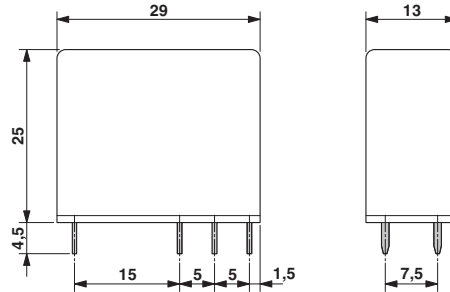
Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Miniature solid-state relay - SIM-EI- 12DC/TTL/100 - 2271141

Dimensional drawing



Circuit diagram

Schematic diagram

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC 7500651.22.01.00244
