

# EMG 17-OV-TTL/ 60DC/3 - Solid-state relay module



2944410

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Power optocoupler, with light indicator and protection circuits in the input and output circuits, input: TTL 5 V DC, output: 12-60 V DC/ max. 3 A

## Commercial data

Item number	2944410
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DK61C2
GTIN	4017918107512
Weight per piece (including packing)	90.06 g
Weight per piece (excluding packing)	90.06 g
Customs tariff number	85364190
Country of origin	DE

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## Technical data

### Product properties

Product type	Solid-state relay module
Application	TTL signal at input
Operating mode	100% operating factor

### Data management status

Date of last data management	01.04.2026
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### Electrical properties

Test voltage (Input/output)	3.5 kV AC (Input/output)
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### Input data

Nominal input voltage $U_N$	TTL
Switching threshold "0" signal, voltage	TTL
Switching threshold "1" signal voltage	TTL
Typical input current at $U_N$	$\leq 1$ mA
Typical response time	20 $\mu$ s
Typical turn-off time	200 $\mu$ s
Status display	LED (yellow)
Protective circuit	Surge protection
Auxiliary voltage TTL input	5 V DC $\pm$ 20 %
Auxiliary current TTL input	55 mA
Transmission frequency	500 Hz

### Control input TTL

Auxiliary voltage TTL input	5 V DC
Auxiliary current TTL input	approx. 55 mA

### Output data

Design of digital output	electronic
Output nominal voltage	60 V DC
Output voltage range	12 V DC ... 60 V DC
Limiting continuous current	3 A (see derating curve)
Peak offstate voltage	60 V DC (Collector-emitter reverse voltage)
Voltage drop at max. limiting continuous current	1.2 V
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection

### Connection data

#### Input side

Connection method	Screw connection
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Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12

## Output side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12

## Dimensions

Width	17.5 mm
Height	75 mm
Depth	102 mm

## Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94	V0

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

## Standards and regulations

Standards/regulations	DIN VDE 0110
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## Mounting

Assembly note	in rows with zero spacing
Mounting position	horizontal

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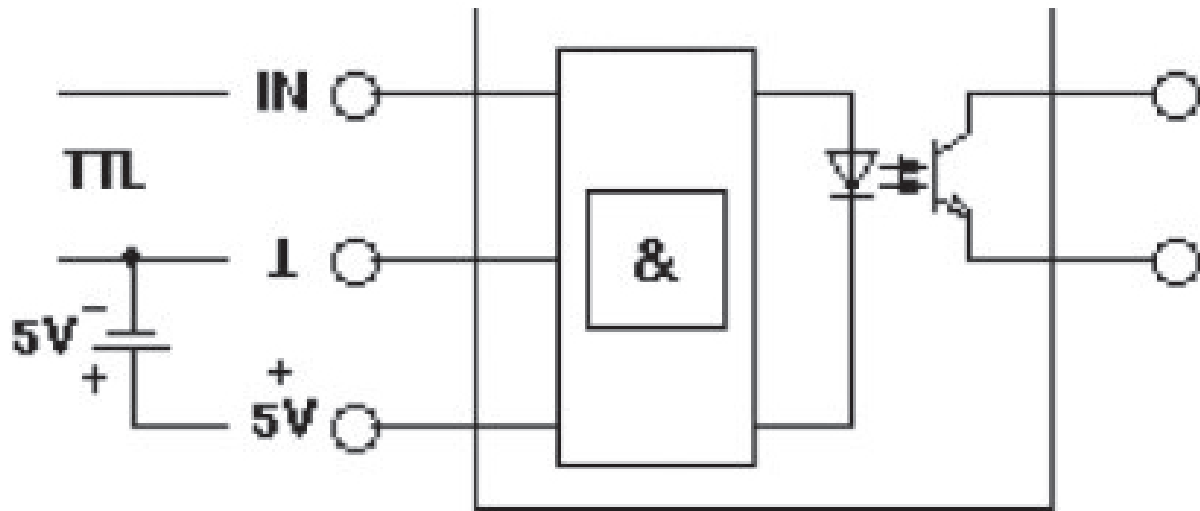


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## Drawings

### Circuit diagram

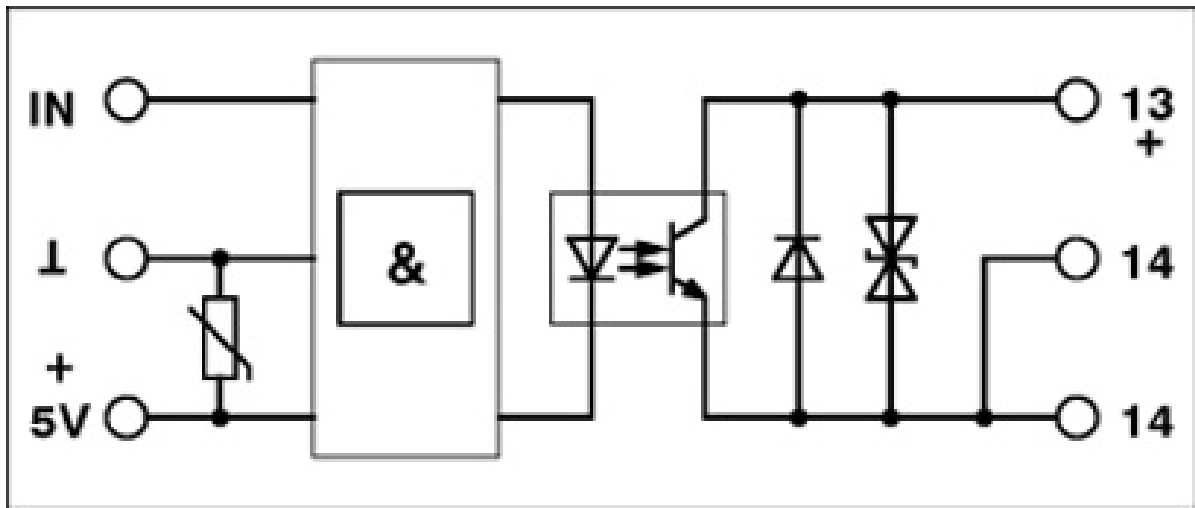


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Circuit diagram



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## Environmental product compliance

### 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.)	No substance above 0.1 wt%
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