

2954316
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Input optocoupler, with light indicator and protection circuits in the input and output circuits, input: 24 V DC, output: 8 - 48 V DC/max. 100 mA

Commercial data

Item number	2954316
Packing unit	10 pc
Minimum order quantity	1 pc
Product key	DK61C1
GTIN	4017918084974
Weight per piece (including packing)	55.98 g
Weight per piece (excluding packing)	55.98 g
Customs tariff number	85364190
Country of origin	DE

EMG 17-OE- 24DC/ 48DC/100 - Solid-state relay module



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Technical data

Product properties

Product type	Solid-state relay module
Operating mode	100% operating factor

Insulation characteristics

Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	15.09.2025
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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	24 V DC
Input voltage range in reference to U_N	0.9 ... 1.1
Input voltage range	21.6 V DC ... 26.4 V DC
Switching threshold "0" signal, voltage	≤ 15 V
Switching threshold "1" signal voltage	≥ 20 V
Typical input current at U_N	8 mA
Typical response time	50 μ s
Typical turn-off time	100 μ s
Status display	LED (yellow)
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection
	RC element
Transmission frequency	300 Hz

Output data

Design of digital output	electronic
Output nominal voltage	48 V DC
Output voltage range	4 V DC ... 48 V DC
Limiting continuous current	100 mA
Voltage drop at max. limiting continuous current	1.5 V
Output circuit	2-conductor floating, 3-conductor ground-referenced
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 mm² ... 4 mm²
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
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 mm² ... 4 mm²
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
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 0110b, Gr. C for 250 V DC
	VDE 0110

Mounting

Assembly note	in rows with zero spacing
Mounting position	any

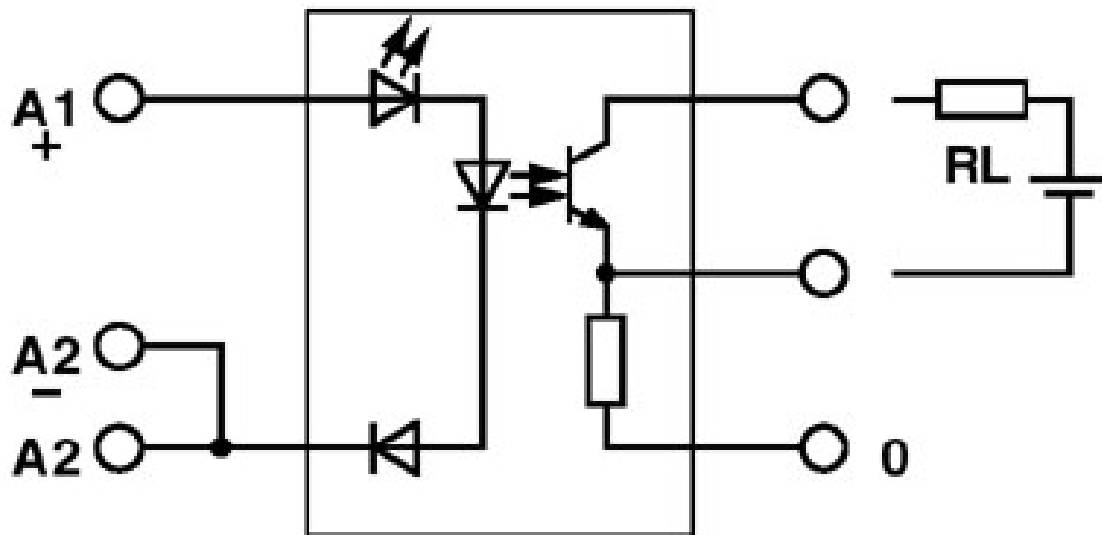
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Drawings

Circuit diagram



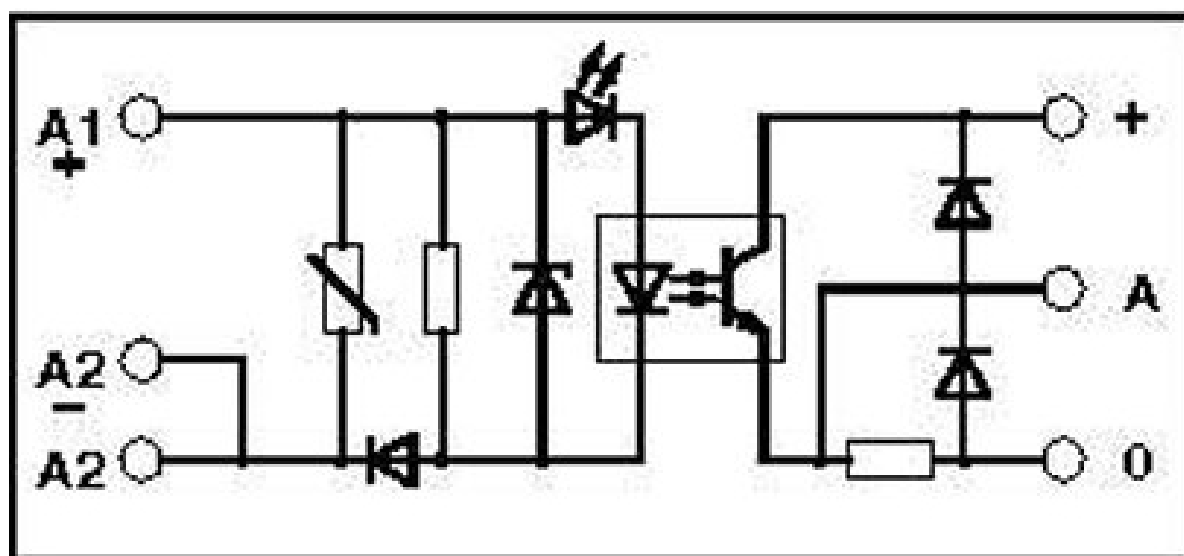
Output: 2-conductor, floating, negative switching

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Circuit diagram

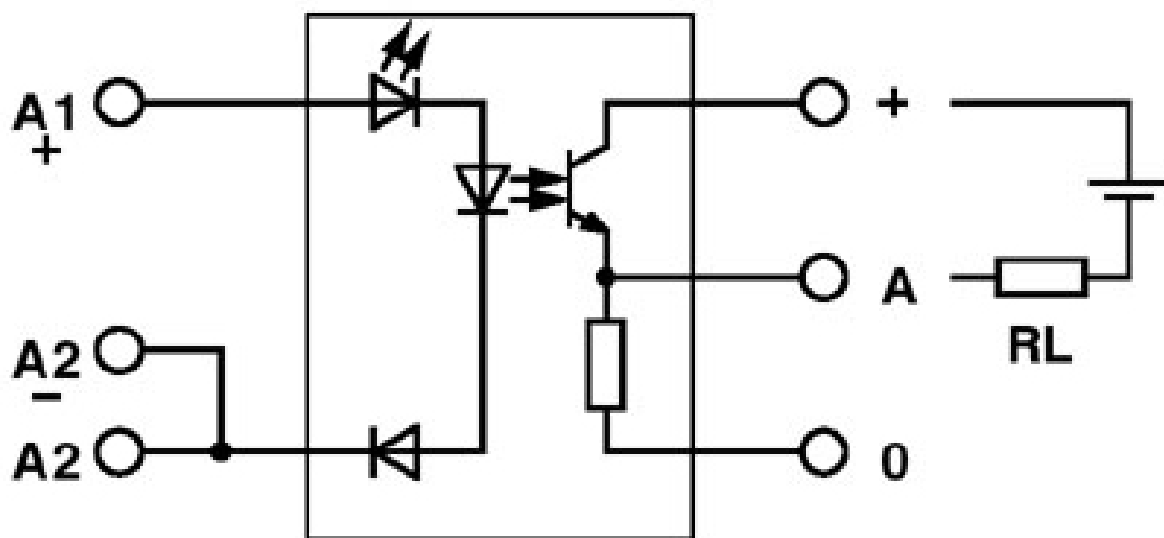


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Circuit diagram



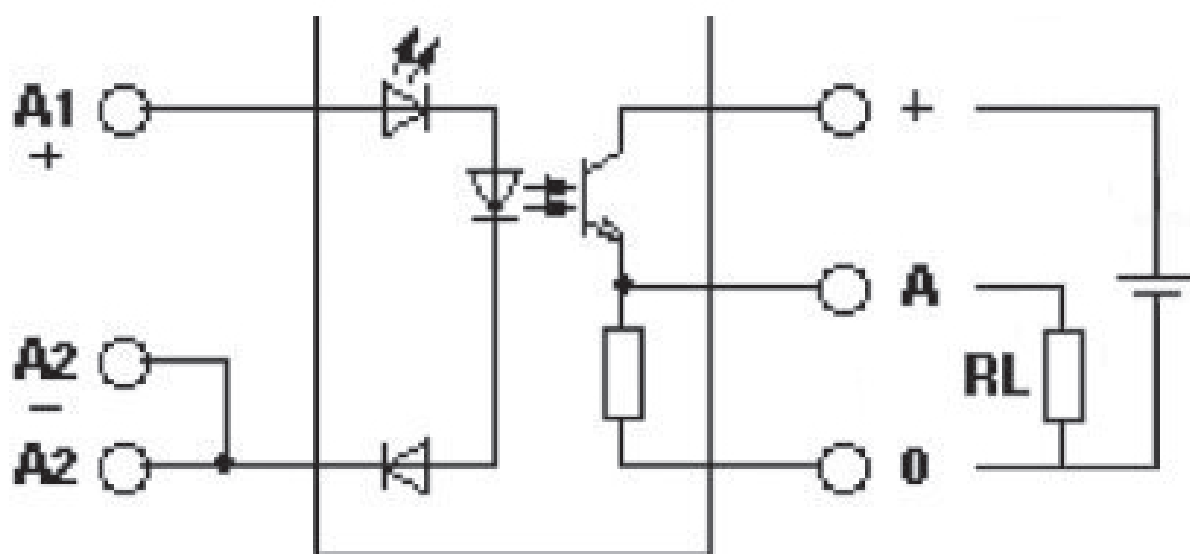
Output: 2-conductor, floating, positive switching

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Circuit diagram



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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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Accessories

EMG-GKS 12 - Marking material

2947035

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Device marking label, width: 12 mm, area: 12 x 8 mm, e.g. for EML(10x7) R adhesive marking material

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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com