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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# EMG 17-OV-TTL/ 24DC/2

Order No.: 2943259




<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2943259>

Power optocoupler, with light indicator and protection circuits in the input and output circuits, input: TTL 5 V DC, output: short-circuit resistant, 24 V DC/max. 2 A



## Commercial data

GTIN (EAN)	 4 017918 107543
sales group	G111
Pack	10 pcs.
Customs tariff	85364190
Catalog page information	Page 131 (IF-2009)

## Product notes

WEEE/RoHS-compliant since:  
08/10/2006



<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

## Technical data

### Input data

Nominal input voltage $U_N$	5 V (TTL)
Input voltage range in reference to $U_N$	0.8 ... 1.2
Switching threshold "0" signal, voltage	TTL 0.8 V
Switching threshold "0" signal in reference to $U_N$	TTL (0.8 V)

Switching threshold "1" signal voltage	TTL 2 V
Switching threshold "1" signal in reference to U <sub>N</sub>	TTL (2 V)
Typical input current at U <sub>N</sub>	2.6 mA
Typical response time	170 µs
Typical turn-off time	190 µs
Status display	Yellow LED
Type of protection	Protection against polarity reversal
	Surge protection
	Free running
Protective circuit/component	Polarity protection diode
	Suppressor diode
	Damping diode
Auxiliary voltage TTL input	5 V DC ± 20%
Auxiliary current TTL input	2.8 mA
Transmission frequency	1000 Hz

#### Output data

Output nominal voltage range	10 V DC ... 30 V DC
Limiting continuous current	2 A (see derating curve)
Leakage current	150 µA
Peak offstate voltage	33 V DC (Collector-emitter reverse voltage)
Current limitation at short-circuits	> 2 A (short-circuit resistant)
Voltage drop at max. limiting continuous current	≤ 0.3 V
Output circuit	3-conductor, ground-referenced
Indication	Red LED
Type of protection	Protection against polarity reversal
	Free-wheeling diode
	Surge protection
Protective circuit/component	Polarity protection diode
	Damping diode
	Suppressor diode

#### Connection data

Type of connection	Screw connection
Stripping length	8 mm
Screw thread	M3

Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

#### General data

Width	17.5 mm
Height	75 mm
Depth	102 mm
Test voltage input/output	2.5 kV
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Mounting position	Any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Degree of protection	IP20
Inflammability class in acc. with UL 94 (housing)	V0
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage / insulation	Basic insulation
Pollution degree	2
Surge voltage category	III

#### Certificates / Approvals



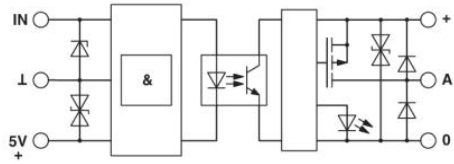
Certification

GOST

**Diagrams/Drawings**

Circuit diagram

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