


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

Order No.: 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 141 (IF-2011)

**Product notes**

WEEE/RoHS-compliant since:  
01/02/2006



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Technical data	
<b>Input data</b>	
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	0.8 V (TTL)
Switching threshold "0" signal in reference to $U_N$	(0.8 V; TTL)

Switching threshold "1" signal voltage	2 V (TTL)
Switching threshold "1" signal in reference to U <sub>N</sub>	(2 V; TTL)
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

Connection method	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 acc. to UL 94	V0
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage / insulation	Basic insulation
Pollution degree	2
Surge voltage category	III

#### Certificates / Approvals



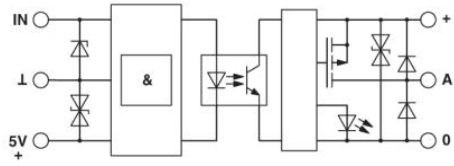
Certification

GOST

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## Diagrams/Drawings

### Circuit diagram



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