

# EMG 10-OV- 5DC/24DC/1

Order No.: 2944203

The illustration shows version EMG 10-OV, with DC voltage output, max. 1 A



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2944203>

Power optocoupler, with light indicator and protection circuits in the input and output circuits, input: 5 V DC, output: 5-36 V DC/ max. 1 A



Commercial data	
EAN	4017918081508
Pack	10 Pcs.
Customs tariff	85364190
Weight/Piece	0.03946 KG
Catalog page information	Page 112 (IF-2007)

#### Product notes

WEEE/RoHS-compliant since:  
01/24/2007



<http://www.download.phoenixcontact.com>  
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#### Technical data

##### Input data

Nominal input voltage $U_N$	5 V DC
Input voltage range in reference to $U_N$	0.9 ... 1.1
Switching threshold "0" signal, voltage	$\leq 3.3$ V
Switching threshold "0" signal in reference to $U_N$	$\leq 0.6$

Switching threshold "1" signal voltage	$\geq 4.1$ V
Switching threshold "1" signal in reference to $U_N$	$\geq 0.9$
Typical input current at $U_N$	4.2 mA
Typical response time	0.1 ms
Typical turn-off time	0.2 ms
Status display	Yellow LED
Name of protection	Polarity protection
Protective circuit/component	Polarity protection diode
Transmission frequency	500 Hz

#### Output data

Output nominal voltage	24 V DC
Output nominal voltage range	5 V DC ... 36 V DC
Limiting continuous current	1 A
Surge current	2 A (t = 1 s)
Peak offstate voltage	45 V DC (Collector-emitter reverse voltage)
Voltage drop at max. limiting continuous current	$\leq 1$ V
Output circuit	2-conductor floating
Name of protection	Polarity protection
Protective circuit/component	Polarity protection 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

Length	75 mm
Width	10 mm
Height	102 mm

Test voltage input/output	3.5 kV AC
Ambient temperature (operation)	-20 °C ... 50 °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	DIN VDE 0110
Rated surge voltage / insulation	Basic insulation

**Certificates / Approvals**

Approval logo



**requested approbations**

Certification	GOST
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**Accessories**

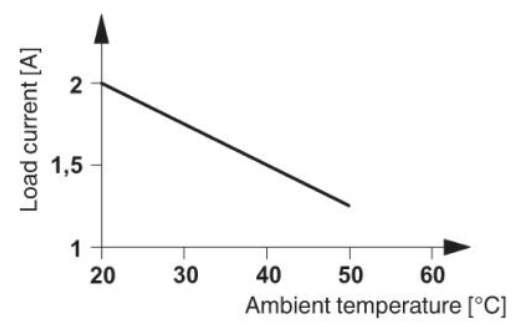
Item	Designation	Description
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**Marking**

2947585	EMG-SGKS 10	Equipment marker, narrow
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**Drawings**

Diagram



Circuit diagram

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