

# EMG 10-OV- 12DC/24DC/1

Order No.: 2944216

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



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2944216>

Power optocoupler, with light indicator and protection circuits in the input and output circuits, input: 12 V DC, output: 5-36 V DC/ max. 1 A

## Commercial data

|                          |                    |
|--------------------------|--------------------|
| EAN                      | 4017918081515      |
| Pack                     | 10 pcs.            |
| Customs tariff           | 85364190           |
| Weight/Piece             | 0.04047 KG         |
| Catalog page information | Page 128 (IF-2009) |

## Product notes

WEEE/RoHS-compliant since:  
06/07/2007



<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 $U_N$                          | 12 V DC      |
| Input voltage range in reference to $U_N$            | 0.9 ... 1.1  |
| Switching threshold "0" signal, voltage              | $\leq 5.3$ V |
| Switching threshold "0" signal in reference to $U_N$ | $\leq 0.33$  |
| Switching threshold "1" signal voltage               | $\geq 7$ V   |

|                                                      |                           |
|------------------------------------------------------|---------------------------|
| Switching threshold "1" signal in reference to $U_N$ | $\geq 0.9$                |
| Typical input current at $U_N$                       | 4 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

|                                 |                  |
|---------------------------------|------------------|
| Width                           | 10 mm            |
| Height                          | 102 mm           |
| Depth                           | 75 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



Certification GOST

#### Accessories

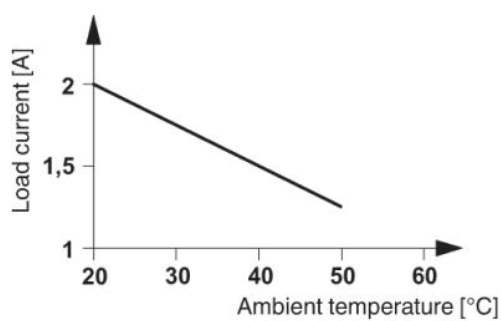
| Item | Designation | Description |
|------|-------------|-------------|
|------|-------------|-------------|

#### Marking

|         |             |                          |
|---------|-------------|--------------------------|
| 2947585 | EMG-SGKS 10 | Equipment marker, narrow |
|---------|-------------|--------------------------|

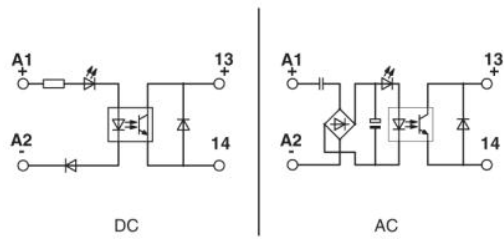
#### Diagrams/Drawings

Diagram



Circuit diagram

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