

## MICROOPTO MOS 12-28VDC 100kHz

**Weidmüller Interface GmbH & Co. KG**

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A special interior circuit in the opto module MICROOPTO 100 kHz ensures that rapidly transmitted signals are isolated from one another and that they can be transferred practically without delay. This allows switching frequencies up to 100 kHz to be achieved. Comprehensive suppressor circuits safeguard the module against conducted transients and voltage spikes.

### General ordering data

Type	MOS 12-28VDC 100kHz
Order No.	<a href="#">8937990000</a>
Version	MICROOPTO, solid-state relays, Rated control voltage: 12 V DC...28 V DC , Rated switching voltage: 19.6...28.8 V, Rated switching current: 50 mA, Screw connection
GTIN (EAN)	4032248716227
Qty.	1 pc(s).

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**Technical data**
**Dimensions and weights**

Width	6.1 mm	Width (inches)	0.24 inch
Height	88.1 mm	Height (inches)	3.468 inch
Depth	97.8 mm	Depth (inches)	3.85 inch
Net weight	31.81 g		

**Temperatures**

Humidity	5–95% rel. humidity, $T_u = 55^\circ\text{C}$ , no condensation	Operating temperature	-25 °C...60 °C
Storage temperature	-40 °C...80 °C		

**Probability of failure**

MTTF	2,559 Years
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**control side**

Rated control voltage	12 V DC...28 V DC	Cut-in / dropout voltage	5.6 V / 5 V DC
Status display on control side	Green LED	Protective circuit, control side	Varistor, rev. polarity protection

**Load side**

Solid-state type	Transistor	Rated switching voltage	19.6...28.8 V
Continuous current	max. 50 mA	Rated switching current	50 mA
Load category	LC A	Pulse load, max. current	0.6 A (20 ms)
Switch-on delay	< 200 ns	Switch-off delay	< 400 ns
Voltage drop at max. load	$\leq 2$ V	Leakage current	< 1 $\mu\text{A}$
Short-circuit-proof	No	Protective circuit, load side	Varistor, rev. polarity protection
max. switching frequency (DC control voltage)	530 kHz	Nominal auxiliary voltage [load side]	19.6...28.8 V / max. 8 mA

**General data**

UL 94 flammability rating	V-0
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**Insulation coordination**

Rated voltage	30 V	Pollution severity	2
Surge voltage category	II	Dielectric strength for control side - load side	350 $V_{\text{eff}}$ / 1 min.
Dielectric strength to mounting rail	350 $V_{\text{eff}}$ / 1 min.	Impulse withstand voltage	500 V (1,2/50 $\mu$ )
Protection degree	IP20		

**Further details of approvals / standards**

Standards	DIN EN 50178, GL 2003-VI-Abs. 9, IEC 62314, UL508	Certificate No. (GERMLLOYD)	54853-08
Certificate no. (cULus)	E141197		

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**Technical data**

**Connection data**

Wire connection method	Screw connection	Stripping length, rated connection	7 mm
Tightening torque, min.	0.4 Nm	Tightening torque, max.	0.6 Nm
Clamping range, rated connection	2.5 mm <sup>2</sup>	Clamping range, rated connection, min.	0.5 mm <sup>2</sup>
Clamping range, rated connection, max.	4 mm <sup>2</sup>	Wire cross-section, solid, min.	0.5 mm <sup>2</sup>
Wire cross-section, solid, max.	4 mm <sup>2</sup>	Wire connection cross-section, finely stranded, min.	0.5 mm <sup>2</sup>
Wire connection cross section, finely stranded, max.	2.5 mm <sup>2</sup>	Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min.	0.5 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max.	1.5 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm <sup>2</sup>	Blade size	0.6 x 3.5 mm

**Classifications**

ETIM 3.0	EC001504	ETIM 4.0	EC001504
ETIM 5.0	EC001504	ETIM 6.0	EC001504
UNSPSC	30-21-18-01	eClass 5.1	27-27-09-90
eClass 6.2	27-27-09-90	eClass 7.1	27-27-09-90
eClass 8.1	27-27-09-90	eClass 9.0	27-27-09-90
eClass 9.1	27-37-10-14		

**Product information**

Descriptive text accessories      Accessories and dimensioned drawings: refer to the MICROOPTO Accessories page.

**Approvals**

Approvals



ROHS      Conform

**Downloads**

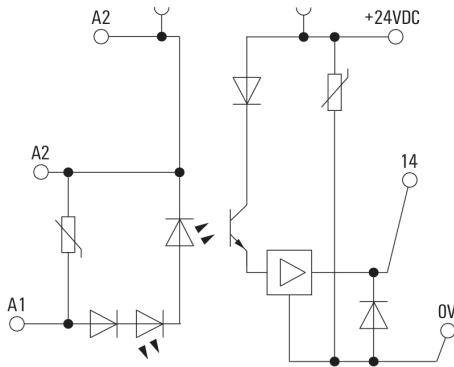
Declaration of Conformity      [K300\\_08\\_13.pdf](#)  
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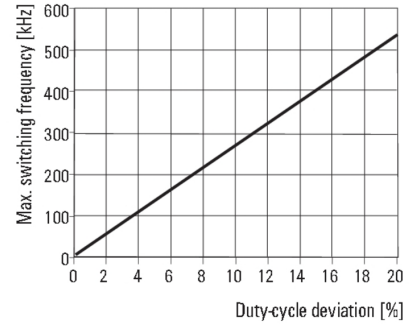
**Drawings**

**Wiring diagram**



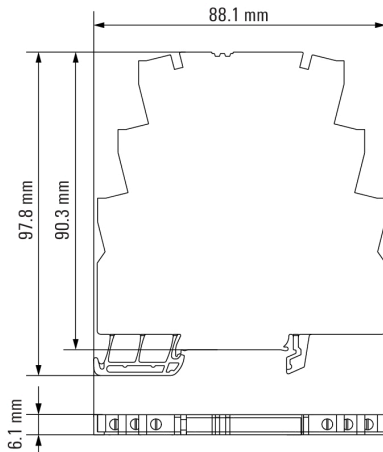
**Max. switching frequency is dependent  
on the duty cycle deviation**

MOS 12-28 V DC 100 kHz (switching current 50 mA, ohmic load)



**Max. switching frequency depending  
on the duty-cycle deviation**

**Dimensioned drawing**



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