

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

Order No.	8937990000
Part designation	MOS 12-28VDC 100kHz
Version	MICROOPTO, Optos, 24 V DC \pm 20 %, 50 mA, Screw connection
GTIN (EAN)	4032248716227
Qty.	1 pc(s).

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Technical data

Dimensions

Length	90 mm	Width	6.1 mm
Height	98 mm		

Temperature

Ambient temperature (operational)	-20 °C...+60 °C	Storage temperature	-40 °C...+80 °C
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Probability of failure

MTTF	1,686 Years
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Approvals

Approvals institutes	CULUS; GERMLLOYD; CE
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Control side

Dropout voltage	< 5.1 V	Input frequency	100 kHz
Power rating	0.08...0.3 W	Protective circuit, control side	Varistor, reverse polarity protection
Rated control voltage	12 V DC...28 V DC	Status display on control side	Green LED
making voltage	> 5.6 V		

General data

Standards	EN 50178 GL 2003-VI-Abs. 9 IEC 62314 UL508	Humidity	5...95 % RH T _u = 55 °C, no condensation
Flammability class UL 94	V-0	Conductor connection system	Screw connection
Solid-state type	Transistor		

Insulation coordination (EN 50 178)

Clearance and creepage distances for control/load side	> 3 mm	Overvoltage category	III
Pollution severity	2	Rated impulse withstand voltage	4 kV (1.2 / 50 µs)
Rated voltage	300 V		

Load side

Continuous current	max. 50 mA	Leakage current	< 20 µA
Load category	LC A	Protective circuit, load side	Varistor, reverse polarity protection
Pulse loading, max. current	0.6 A (20 ms)	Rated switching current	50 mA
Rated switching voltage	24 V DC ± 20 %	Short-circuit-proof	No
Switch-off delay	< 400 ns	Switch-on delay	< 200 ns
Voltage drop at max. load	≤ 2 V		

Classifications

ETIM 3.0	EC001504	eClass 5.1	27-27-09-90
eClass 6.0	27-27-09-90		

Datasheet

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Drawings

Electric symbol

