

**MICROOPTO**  
**MOS 24VDC/5-48VDC 0,5A**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
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 Germany  
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Electronic CO contacts are used anywhere output signals need to be changed over. For this purpose, the input signal is directly switched through to the output side and inverted; as a result, the opto module can also be used as a pure inverter. The advantage over electromechanical relays lies in the wear-free switching and the possibility of realising high switching frequencies.

**General ordering data**

Order No.	<a href="#">8937980000</a>
Part designation	MOS 24VDC/5-48VDC 0,5A
Version	MICROOPTO, Optos, 5...48 V DC, 500 mA, Screw connection
GTIN (EAN)	4032248716210
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)	-25 °C...+60 °C	Storage temperature	-40 °C...+80 °C
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### Probability of failure

MTTF	620 Years
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### Approvals

Approvals institutes	CULUS; GERMLLOYD; GOSTME25; CE
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### Control side

Dropout voltage	< 50 % U <sub>enn</sub>	Input frequency	1 kHz
Power rating	160 mW	Protective circuit, control side	Varistor, reverse polarity protection
Rated control voltage	24 V DC ±20 %	Status display on control side	Green status LED
making voltage	> 80 % U <sub>enn</sub>		

### General data

Standards	EN 50178 GL 2003-VI-Abs. 9 IEC 62314 UL508	Humidity	40°C / 93% rel. humidity, 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	500 mA	Leakage current	< 2 µA
Load category	LC A	Protective circuit, load side	Integrated free-wheel diode
Rated switching current	500 mA	Rated switching voltage	5...48 V DC
Short-circuit-proof	No	Switch-off delay	< 50 µs
Switch-on delay	< 40 µs	Voltage drop at max. load	Max. 1 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**

