

## MICROOPTO MOS 12-28VDC/5VTTL

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To adjust sensitive TTL signals to the typical voltage level of 24 V DC used in industrial automation applications, the MICROOPTO TTL modules are used. For the protection of the electronics, the sensitive TTL signals require electrical isolation from the 24 V world. To control the opto circuit via the 5 V TTL signal, an additional auxiliary voltage is fed in.

### General ordering data

Type	MOS 12-28VDC/5VTTL
Order No.	<a href="#">8937930000</a>
Version	MICROOPTO, solid-state relays, Rated control voltage: 12 V DC...28 V DC , Rated switching voltage: 5 V TTL, Rated switching current: 50 mA, Screw connection
GTIN (EAN)	4032248716166
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	34 g		

**Temperatures**

Humidity	40 °C / 93 % rel. humidity, no condensation	Operating temperature	-25 °C...60 °C
Storage temperature	-40 °C...60 °C		

**Probability of failure**

MTTF	2,047 Years
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**control side**

Rated control voltage	12 V DC...28 V DC	Cut-in / dropout voltage	10.7 V / 10.6 V DC
Protective circuit, control side	Varistor, rev. polarity protection	Status display on control side	Green LED

**Load side**

Rated switching voltage	5 V TTL	Continuous current	max. 50 mA
Rated switching current	50 mA	Switch-on delay	typical. < 1 µs
Switch-off delay	typical. < 4 µs	Load category	LC A
Leakage current	< 1 µA	Protective circuit, load side	Varistor
Voltage drop at max. load	90 mV	Short-circuit-proof	No
max. switching frequency (DC control voltage)	100 kHz	Solid-state type	TTL
Nominal auxiliary voltage [load side]	5 V DC ± 10 % / max. 50 mA		

**General data**

Solid-state type	TTL	No. of poles	1
Wire connection method	Screw connection	Humidity	40 °C / 93 % rel. humidity, no condensation
UL 94 flammability rating	V-0	Standards	DIN EN 50178, GL 2003- VI-Abs. 9, IEC 62314, UL508
Wire cross-section, solid, max.	4 mm <sup>2</sup>	Wire connection cross section, finely stranded, max.	2.5 mm <sup>2</sup>

**Insulation coordination**

Rated voltage	300 V	Clearance and creepage distances for control side - load side	> 3 mm
Dielectric strength for control side - load side	1.2 kV <sub>eff</sub> / 1 min.	Dielectric strength to mounting rail	1.2 kV <sub>eff</sub> / 1 min.
Impulse withstand voltage	4 kV (1.2/50 µs)	Pollution severity	2
Surge voltage category	III		

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## Technical data

### 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		

### 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

### Product information

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

### Approvals

Approvals



ROHS      Conform

### Downloads

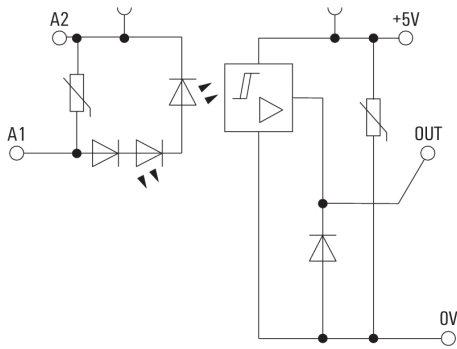
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 EPLAN      [8937930000.ema](#)  
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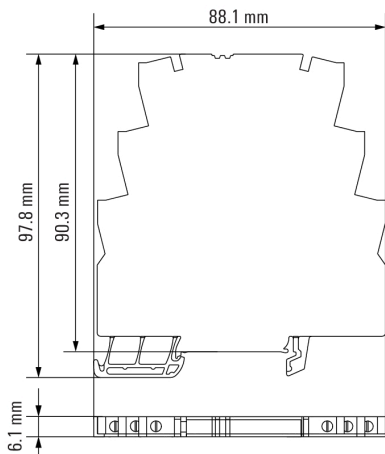
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**Drawings**

**Wiring diagram**



**Dimensioned drawing**



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