

MICROOPTO MOS 5VTTL/24VDC 0,1A

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com



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 5VTTL/24VDC 0,1A
Order No.	8937920000
Version	MICROOPTO, Solid-state relay, Rated control voltage: 5 V TTL , Rated switching voltage: 24 VDC $\pm 20\%$, Rated switching current: 100 mA, Screw connection
GTIN (EAN)	4032248716159
Qty.	1 pc(s).

**MICROOPTO
MOS 5VTTL/24VDC 0,1A**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Technical data
Dimensions and weights

Width	6.1 mm	Height	88 mm
Depth	98 mm	Net weight	34.81 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	1,686 Years
------	-------------

control side

Rated control voltage	5 V TTL	Power rating	< 0.5 mW
Input frequency	100 kHz	Cut-in (switch-on) voltage	approx. 2 V
Dropout voltage	ca. 1 V	Protective circuit, control side	Varistor, rev. polarity protection
Status display on control side	Green status LED	Rated auxiliary voltage	5 V DC ±5 %

Load side

Solid-state type	TTL	Rated switching voltage	24 VDC ±20%
Continuous current	100 mA	Rated switching current	100 mA
Switch-on delay	< 1.3 µ	Switch-off delay	< 1 µs
Load category	LC A	Leakage current	< 20 µA
Protective circuit, load side	Integrated free-wheel diode	Voltage drop at max. load	< 1 V
Short-circuit-proof	No	Rated auxiliary voltage	5 V DC ±5 %

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

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 _{eff} / 1 min.	Dielectric strength to mounting rail	1.2 kV _{eff} / 1 min.
Impulse withstand voltage	4 kV (1.2/50 µs)	Pollution severity	2
Surge voltage category	III		

Further details of approvals

Standards	DIN EN 50178, GL 2003- VI-Abs. 9, IEC 62314, UL508
-----------	--

Data sheet

**MICROOPTO
MOS 5VTTL/24VDC 0,1A**

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Technical data

Connection data

Clamping range, rated connection	2.5 mm ²	Clamping range, rated connection, max.	4 mm ²
Clamping range, rated connection, min.	0.5 mm ²	Wire connection method	Screw connection

Classifications

ETIM 3.0	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		

Product information

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

Approvals

Approvals



ROHS	Conform
------	---------

Downloads

Declaration of Conformity	K300_11_08.pdf
EPLAN	8937920000.ema
3-D model	

Data sheet

**MICROOPTO
MOS 5VTTL/24VDC 0,1A**

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Drawings

Electric symbol

