

MOS 24VDC/12-300VDC 1A

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Compact and powerful solid-state relays in terminal block format

Saving space in the panel is becoming more and more important, and requires increasingly compact components. With the compact and powerful MICROOPTO solid-state relays, you benefit from our decades of experience in manufacturing products in terminal block format. The MICROOPTO family comprises high-quality solid-state relays for application-specific problem solving and delivers high performance in a width of just 6.1 mm. The wide range of accessories from plug-in cross-connections to end-to-end marking solutions makes it particularly versatile. Thanks to international approvals, they can be used worldwide. Reliable function is ensured by the integrated protective suppressor circuit for inputs and outputs.

General ordering data

Version	MICROOPTO, Solid-state relay, Rated control voltage: 24 V DC $\pm 20\%$, Rated switching voltage: 12...300 V DC, Continuous current: 1 A, Screw connection
Order No.	8937830000
Type	MOS 24VDC/12-300VDC 1A
GTIN (EAN)	4032248716050
Qty.	1 items
Delivery status	This article will no longer be available in the future.
Available until	2026-04-29T00:00:00+02:00
Alternative product	TOPL 24VDC 300VDC 1A

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E141197

Dimensions and weights

Depth	97.8 mm	Depth (inches)	3.8504 inch
Height	88.1 mm	Height (inches)	3.4685 inch
Width	6.1 mm	Width (inches)	0.2402 inch
Net weight	37 g		

Temperatures

Storage temperature	-40 °C...80 °C	Ambient temperature	-25 °C...60 °C
Operating temperature		Humidity	5-95% relative humidity, Tu = 55°C, without condensation

Probability of failure

MTTF 467 a

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	d32f8e61-6733-45d6-9062-c95f9903aad6

Control side

Rated control voltage	24 V DC \pm 20 %	Rated control voltage (control input)	24 V DC \pm 20 %
Power rating	0.36 W	Status indicator	Green LED
Protective circuit	Varistor, Reverse polarity protection	Input frequency	50...60Hz

Load side

Rated switching voltage	12...300 V DC	Continuous current	1 A
Max. switching current	1,5 A	Load category	LC A
Pulse load, max. current	27 A (10 ms)	Switch-on delay	<18 μ s
Switch-off delay	<1 ms	Voltage drop at max. load	\leq 0.4 V
Leakage current	<1 μ A	Short-circuit-proof	No
Protective circuit, load side	Varistor, Free-wheeling diode	Contact type	1 NO contact (POWER MOS-FET)
max. switching frequency (DC control voltage)	60 Hz		

General data

Mounting rail TS 35

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Colour	black		
UL 94 flammability rating	V-0		
UL94 flammability rating component	Component	Housing	
	UL94 flammability rating	V-0	

Insulation coordination

Rated voltage	300 V	Pollution severity	2
Surge voltage category	III	Clearance and creepage distances for control side - load side	> 3 mm
Dielectric strength for control side - load side	3 kVeff / 1 Min.	Dielectric strength to mounting rail	4 kVeff / 1 Min.
Impulse withstand voltage	2.5 kV (1.2/50 µs)	Protection degree	IP20

Further details of approvals / standards

Certificate No. (DNV)	TAE000033E	Certificate no. (cULus)	E141197
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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 ²	Clamping range, min.	0.5 mm ²
Clamping range, max.	4 mm ²	Wire cross-section, solid, min.	0.5 mm ²
Wire cross-section, solid, max.	4 mm ²	Wire connection cross section, finely stranded, min.	0.5 mm ²
Wire connection cross section, finely stranded, max.	2.5 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm ²	Blade size	0.6 x 3.5 mm

Important note

Product information	The cable lengths must not exceed 30 m.
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Classifications

ETIM 8.0	EC001504	ETIM 9.0	EC001504
ETIM 10.0	EC001504	ECLASS 14.0	27-37-16-04
ECLASS 15.0	27-37-16-04		

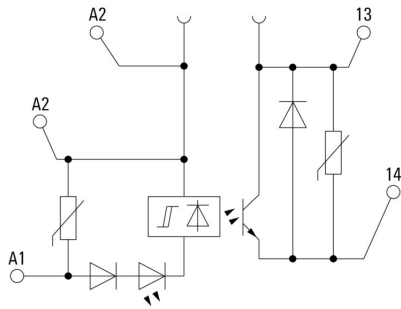
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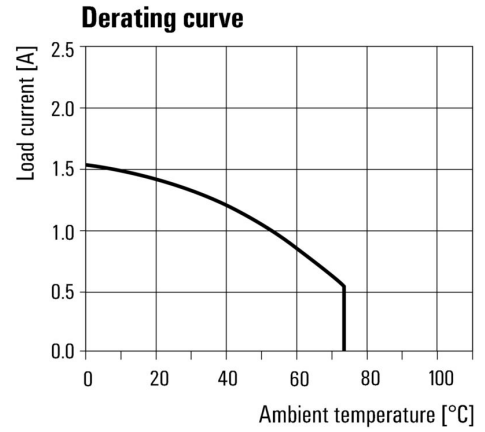
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Drawings

Wiring diagram



Graph



Deratingkurve

Dimensional drawing

