

MOS 24VDC/8-30VDC 2A

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: 8...30 V DC, Continuous current: 2 A, Screw connection
Order No.	8937970000
Type	MOS 24VDC/8-30VDC 2A
GTIN (EAN)	4032248716203
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	TOPH 24VDC 48VDC2A

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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 mm	Depth (inches)	3.8189 inch
Height	88.1 mm	Height (inches)	3.4685 inch
Width	6.1 mm	Width (inches)	0.2402 inch
Net weight	35.81 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 847 a

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	d32f8e6 1-6733-45d6-9062-c95f9903aad6

Control side

Rated control voltage	24 V DC \pm 20 %	Rated control voltage (control input)	24 V DC \pm 20 %
Power rating	\leq 170 mW	Protective circuit	Varistor, Reverse polarity protection
Input frequency	125 Hz		

Load side

Rated switching voltage	8...30 V DC	Continuous current	2 A
Max. switching current	4 A	Load category	LC A
Switch-on delay	0.1 ms	Switch-off delay	<0.5 ms
Voltage drop at max. load	\leq 50 mV	Leakage current	<10 μ A
Min. switching current	100 μ A	Short-circuit-proof	Yes (thermal cut-out)
Load side status indicator	LED green, output switched, LED red, short-circuit /overload at the output	Protective circuit, load side	Varistor, Free-wheeling diode
Contact type	1 NO contact (Intelligent POWER MOS-FET)	max. switching frequency (DC control voltage)	125 Hz
Nominal auxiliary voltage	8...30 V DC / max. 6 mA		

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Technical data

General data

Version	with functional earth connection		
Mounting rail	TS 35		
Colour	black		
UL 94 flammability rating	V-0		
UL94 flammability rating component	Component	Housing	
	UL94 flammability rating	V-0	

Insulation coordination

Rated voltage	30 V	Pollution severity	2
Surge voltage category	III	Dielectric strength for control side - load side	350 Veff / 1 min.
Dielectric strength to mounting rail	350 Veff / 1 min.	Impulse withstand voltage	500 V (1,2/50 µ)
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		

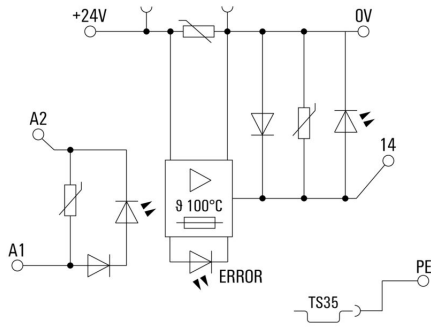
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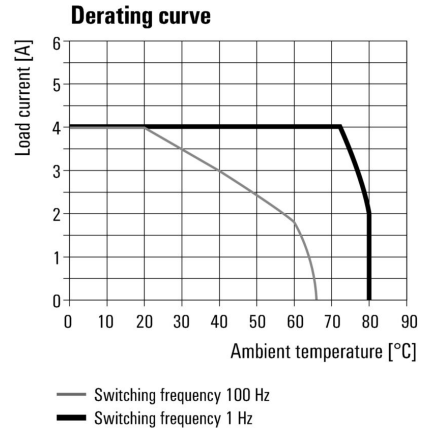
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Drawings

Wiring diagram



Graph



Deratingkurve

Dimensional drawing

