

MOS 24VDC/8-30VDC 2A E

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Similar to illustration

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 applicationspecific 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. The wide MICROOPTO portfolio includes a range of solutions for special loads. For example, for inductive loads up to 10 A at 24 V DC or for DC loads up to 300 V. In addition, there are solutions for decoupling 5 V TTL inputs and outputs, for frequencies up to 550 kHz, as well as the single CO contact version for inverting signals.



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.	1283230000
Type	MOS 24VDC/8-30VDC 2A E
GTIN (EAN)	4050118073430
Qty.	10 pc(s).

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Technical data

Dimensions and weights

Depth	97.8 mm	Depth (inches)	3.85 inch
Height	88.1 mm	Height (inches)	3.468 inch
Width	6.1 mm	Width (inches)	0.24 inch
Net weight	35.81 g		

Temperatures

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

Probability of failure

MTTF	847 Years
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1	SCIP	d32f8e61-6733-45d6-9062-c95f9903aad6
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Control side

Rated control voltage	24 V DC ±20 %	Power rating	≤ 170 mW
Pull-in/drop-out voltage, typ.	13.8 V / 13.6 V DC	Protective circuit	Varistor, Reverse polarity protection

Load side

Rated switching voltage	8...30 V DC	Continuous current	2 A
Max. switching current	2 A	Load category	LC A
Switch-on delay	0.1 ms	Switch-off delay	< 0.5 ms
Voltage drop at max. load	≤ 50 mV	Leakage current	< 10 µA
Min. switching current	100 µA	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)	10 Hz
Nominal auxiliary voltage	8...30 V DC / max. 6 mA		

General data

Rail	TS 35				
Colour	black				
UL 94 flammability rating	V-0				
UL94 flammability rating component	<table border="1"> <tr> <td>Component</td> <td>Housing</td> </tr> <tr> <td>UL94 flammability rating</td> <td>V-0</td> </tr> </table>	Component	Housing	UL94 flammability rating	V-0
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Technical data**Insulation coordination**

Rated voltage	30 V	Pollution severity	2
Surge voltage category	III	Dielectric strength for control side - load side	350 V _{eff} / 1 min.
Dielectric strength to mounting rail	350 V _{eff} / 1 min.	Impulse withstand voltage	500 V (1,2/50 μ)
Protection degree	IP20		

Further details of approvals / standards

Standards	DIN EN 50178	Certificate No. (DNVGL)	TAE000033E
Certificate No. (GERMLLOYD)	54853-08		

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

Classifications

ETIM 6.0	EC001504	ETIM 7.0	EC001504
ETIM 8.0	EC001504	ECLASS 9.0	27-37-16-04
ECLASS 9.1	27-37-16-04	ECLASS 10.0	27-37-16-04
ECLASS 11.0	27-37-16-04	ECLASS 12.0	27-37-16-04

Important note

Product information The cable lengths must not exceed 30 m.

Approvals

Approvals



ROHS

Conform

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Technical data**Downloads**

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	CAD data – STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Beipackzettel / Package Insert – multilingual
Catalogues	Catalogues in PDF-format
Brochures	

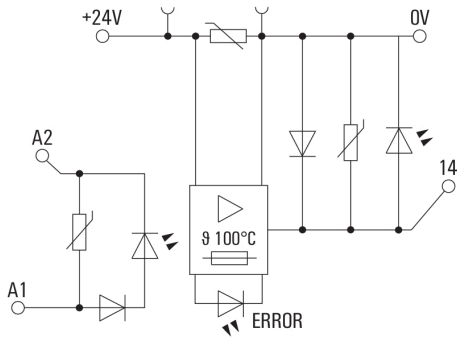
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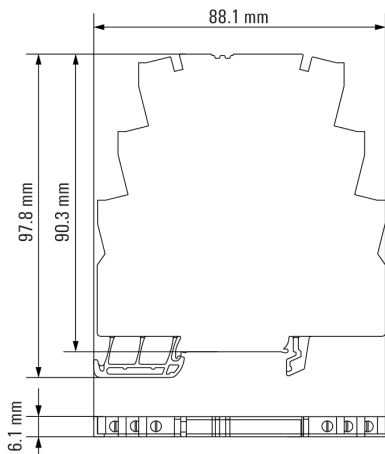
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Drawings

Wiring diagram



Dimensional drawing



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