

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 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.	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 Jahre
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Control side

Rated control voltage	24 V DC $\pm 20\%$	Power rating	≤ 170 mW
Protective circuit	Varistor, Reverse polarity protection	Input frequency	10 Hz

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 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)	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	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 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		

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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

Classifications

ETIM 6.0	EC001504	ETIM 7.0	EC001504
ETIM 8.0	EC001504	ETIM 9.0	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	ECLASS 13.0	27-37-16-04

Environmental Product Compliance

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

Important note

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

Approvals



ROHS	Conform
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Downloads

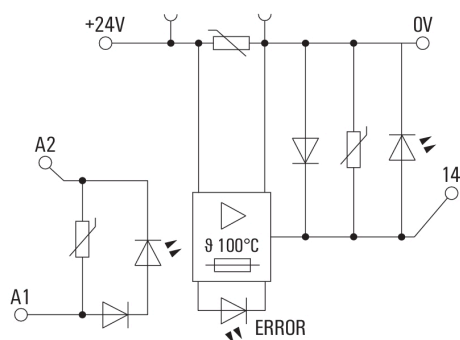
Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	CAD data – STEP
User Documentation	Beipackzettel / Package Insert – multilingual
Catalogues	Catalogues in PDF-format
Brochures	

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Drawings
Wiring diagram

Dimensional drawing
