

MICROOPTO MOS 24VDC/8-30VDC 2A E

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

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Germany

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The MICROOPTO SOLENOID solid-state relay is used especially as a switching amplifier for actuators up to 24 V DC and 10 A with inductive loads such as solenoid valves and contactors. 3-wire actuators can be connected directly to the module.

This is short-circuit proof and protected against application-related transients and spikes by extensive protective circuitry.

General ordering data

Type	MOS 24VDC/8-30VDC 2A E
Order No.	1283230000
Version	MICROOPTO, solid-state relays, 1 NO contact (Intelligent POWER MOS-FET), Rated control voltage: 24 V DC $\pm 20\%$, Rated switching voltage: 8...30 V DC, Continuous current: 2 A, Screw connection
GTIN (EAN)	4050118073430
Qty.	10 pc(s).

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Technical data
Dimensions and weights

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

Temperatures

Humidity	5–95% rel. humidity, $T_u = 55^\circ\text{C}$, no condensation	Operating temperature, max.	60 °C
Operating temperature, min.	-25 °C	Storage temperature, max.	80 °C
Storage temperature, min.	-40 °C	Operating temperature	-25 °C...60 °C
Storage temperature	-40 °C...80 °C		

Probability of failure

MTTF	847 Years
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Control side

Rated control voltage	24 V DC $\pm 20\%$	Power rating	$\leq 170\text{ mW}$
Cut-in / dropout voltage	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	$\leq 50\text{ mV}$	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-wheel diode
max. switching frequency (DC control voltage)	10 Hz	Nominal auxiliary voltage	8...30 V DC / max. 6 mA

Contact data

Contact type	1 NO contact (Intelligent POWER MOS-FET)
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General data

Mounting rail	TS 35	Colour	Black
UL 94 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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Technical data

Further details of approvals / standards

Standards	DIN EN 50178	Certificate No. (GERMLLOYD)	54853-08
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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	eClass 6.2	27-27-09-90
eClass 7.1	27-27-09-90	eClass 8.1	27-27-09-90
eClass 9.0	27-27-09-90	eClass 9.1	27-37-16-04

Product information

Product information	The cable lengths must not exceed 30 m.
Descriptive text accessories	Accessories and dimensional drawings: refer to the MICROOPTO Accessories page

Approvals

Approvals



ROHS	Conform
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Downloads

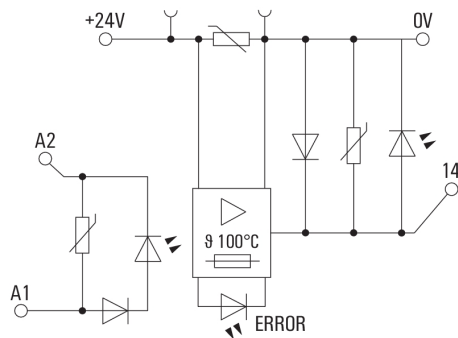
Approval/Certificate/Document of Conformity	DE_PA5600_160302_001.pdf
Brochure/Catalogue	CAT 4.2 ELECTR 18/19 EN
Engineering Data	EPLAN.WSCAD
Engineering Data	STEP
User Documentation	Operating Instructions

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Drawings

Wiring diagram



Dimensional drawing

