

**MICROOPTO
MOS 24VDC/5-33VDC 10A****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



The MICROOPTO SOLENOID solid-state relay is used especially as switching amplifier for actuators up to 24 V DC and 10 A with inductive loads such as solenoid valves and contactors.

A potential-free signalling contact transmits errors, such as short circuit or overload, to the controller.

The MICROOPTO SOLENOID solid-state relay is short-circuit-proof and protected against power-related transients and voltage peaks by extensive protective circuits.

The closed housing also offers a high level of protection from touching.

General ordering data

Type	MOS 24VDC/5-33VDC 10A
Order No.	8937940000
Version	MICROOPTO, Solid-state relay, Rated control voltage: 24 V DC $\pm 20\%$, Rated switching voltage: 5...33 V DC, Rated switching current: 10 A, Screw connection
GTIN (EAN)	4032248716173
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Width	6.1 mm	Height	88 mm
Depth	98 mm	Net weight	38.81 g

Temperatures

Humidity	40 °C / 93 % rel. humidity, no condensation	Operating temperature	-25 °C...+60 °C
Storage temperature	-40 °C...+60 °C		

Probability of failure

MTTF	399 Years
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control side

Rated control voltage	24 V DC $\pm$ 20 %	Power rating	400 mW
Input frequency	50 Hz	Cut-in (switch-on) voltage	> 18 V
Dropout voltage	< 13 V	Protective circuit, control side	Varistor, rev. polarity protection
Status display on control side	Error LED red; Status LED green		

Load side

Solid-state type	POWER MOS-FET	Rated switching voltage	5...33 V DC
Continuous current	10 A	Rated switching current	10 A
Switch-on delay	typical. 250 μ s	Switch-off delay	typical. 700 μ s
Load category	LC A	Leakage current	< 1 mA
Protective circuit, load side	Current sensor, Varistor, integrated free-wheel diode	Voltage drop at max. load	approx. 100 mV
Load side status indicator	Error message, red LED; status, green LED	Short-circuit-proof	Resistance

General data

Solid-state type	POWER MOS-FET	No. of poles	1
Wire connection method	Screw connection	Humidity	40 °C / 93 % rel. humidity, no condensation
UL 94 flammability rating	V-0	Standards	DIN EN 50178, GL 2003-VI-Abs. 9, IEC 62314, UL508
Alarm contact	5...48 V DC / 0.1 A	Wire cross-section, solid, max.	4 mm ²
Wire connection cross section, finely stranded, max.	2.5 mm ²		

Insulation coordination

Rated voltage	300 V	Clearance and creepage distances for control side - load side	> 3 mm
Dielectric strength for control side - load side	1.2 kV _{eff} / 1 min.	Dielectric strength to mounting rail	1.2 kV _{eff} / 1 min.
Impulse withstand voltage	4 kV (1.2/50 μ s)	Pollution severity	2
Surge voltage category	III		

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Further details of approvals

Standards	DIN EN 50178, GL 2003-VI-Abs. 9, IEC 62314, UL508
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Connection data

Clamping range, rated connection	2.5 mm ²	Clamping range, rated connection, max.	4 mm ²
Clamping range, rated connection, min.	0.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm ²	Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min.	0.5 mm ²
Stripping length, rated connection	7 mm	Tightening torque, max.	0.6 Nm
Tightening torque, min.	0.4 Nm	Wire connection cross section, finely stranded, max.	2.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max.	1.5 mm ²	Wire connection cross-section, finely stranded, min.	0.5 mm ²
Wire connection method	Screw connection	Wire cross-section, solid, max.	4 mm ²
Wire cross-section, solid, min.	0.5 mm ²		

Classifications

ETIM 3.0	EC001504	UNSPSC	30-21-18-01
eClass 5.1	27-27-09-90	eClass 6.2	27-27-09-90
eClass 7.1	27-27-09-90		

Product information

Descriptive text technical data	Suppressor circuitry for inductive loads, 10 cm installation clearance to inductive switching devices.
Descriptive text accessories	Accessories and dimensioned drawings: refer to the MICROOPTO Accessories page.

Approvals

Approvals



ROHS	Conform
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Downloads

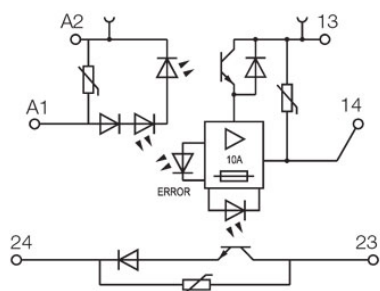
Declaration of Conformity	K300_11_08.pdf
EPLAN	8937940000.ema
3-D model	

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Drawings

Electric symbol



Derating curve

