

MICROOPTO
MOS 24VDC/5-33VDC 10A

Weidmüller Interface GmbH & Co. KG
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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 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 against contact.

General ordering data

Order No.	8937940000
Part designation	MOS 24VDC/5-33VDC 10A
Version	MICROOPTO, Solid-state relay, 5...33 V DC, 10 A, Screw connection
GTIN (EAN)	4032248716173
Qty.	1 pc(s).

Creation date October 15, 2010 8:49:11 AM CEST

Last update 30.08.2010 / We reserve the right to make technical changes.

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Technical data

Dimensions

Length	90 mm	Width	6.1 mm
Height	98 mm		

Temperature

Ambient temperature (operational)	-25 °C...+60 °C	Storage temperature	-40 °C...+80 °C
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Probability of failure

MTTF	399 Years
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Approvals

Approvals institutes	CULUS; GERMLLOYD; GOSTME25; CE
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Control side

Dropout voltage	< 13 V	Input frequency	50 Hz
Power rating	400 mW	Protective circuit, control side	Varistor, reverse polarity protection
Rated control voltage	24 V DC ±20 %	Status display on control side	Error LED red; Status LED green
making voltage	> 18 V		

General data

Alarm contact	5...48 V DC / 0.1 A	Standards	EN 50178 GL 2003-VI-Abs. 9 IEC 62314 UL508
Humidity	40°C / 93% rel. humidity, no condensation	Flammability class UL 94	V-0
Conductor connection system	Screw connection	Solid-state type	POWER MOS-FET

Insulation coordination (EN 50 178)

Clearance and creepage distances for control/load side	> 3 mm	Overvoltage category	III
Pollution severity	2	Rated impulse withstand voltage	4 kV (1.2 / 50 µs)
Rated voltage	300 V		

Load side

Continuous current	10 A	Leakage current	< 1 mA
Load category	LC A	Protective circuit, load side	Varistor Current sensor
Rated switching current	10 A	Rated switching voltage	5...33 V DC
Short-circuit-proof	Resistance	Switch-off delay	typical. 700 µs
Switch-on delay	typical. 250 µs	Voltage drop at max. load	approx. 100 mV

Classifications

ETIM 3.0	EC001504	eClass 5.1	27-27-09-90
eClass 6.0	27-27-09-90		

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Notes

Note, technical data	Suppressor circuitry for inductive loads, 10-cm installation clearance to inductive switching devices
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Drawings

Electric symbol

