

MICROOPTO
MOS 24VDC/5-48VDC 0,5A

Weidmüller Interface GmbH & Co. KG
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Electronic CO contacts are used anywhere output signals need to be changed over. For this purpose, the input signal is directly switched through to the output side and inverted; as a result, the opto module can also be used as a pure inverter. The advantage over electromechanical relays lies in the wear-free switching and the possibility of realising high switching frequencies.

General ordering data

Type	MOS 24VDC/5-48VDC 0,5A
Order No.	8937980000
Version	MICROOPTO, solid-state relays, 1 CO contact (Transistor), Rated control voltage: 24 V DC $\pm 20\%$, Rated switching voltage: 5...48 V DC, Continuous current: 500 mA, Screw connection
GTIN (EAN)	4032248716210
Qty.	1 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	34 g		

Temperatures

Humidity	5 - 93% rel. humidity, Tu = 40°C, no condensation	Operating temperature, max.	60 °C
Operating temperature, min.	-25 °C	Storage temperature, max.	60 °C
Storage temperature, min.	-40 °C	Operating temperature	-25 °C...60 °C
Storage temperature	-40 °C...60 °C		

Probability of failure

MTTF	620 Years
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Control side

Rated control voltage	24 V DC $\pm$ 20 %	Power rating	160 mW
Cut-in / dropout voltage	19.5 V / 12 V DC	Status indicator	Green LED
Protective circuit	Varistor, Reverse polarity protection		

Load side

Rated switching voltage	5...48 V DC	Continuous current	500 mA
Rated switching current	500 mA	Load category	LC A
Switch-on delay	< 30 μ s	Switch-off delay	< 50 μ s
Voltage drop at max. load	Max. 1 V	Leakage current	< 1.5 mA
Short-circuit-proof	No	Protective circuit, load side	Free-wheeling diode
max. switching frequency (DC control voltage)	1 kHz		

Contact data

Contact type	1 CO contact (Transistor)
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General data

Rail	TS 35	Colour	black
UL 94 flammability rating	V-0		

Insulation coordination

Rated voltage	300 V	Pollution severity	2
Surge voltage category	III	Clearance and creepage distances for control side - load side	> 3 mm
Dielectric strength for control side - load side	3 kV _{eff} / 1 Min.	Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Impulse withstand voltage	4 kV (1.2/50 μ s)	Protection degree	IP20

Creation date November 20, 2019 3:19:52 PM CET

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Technical data**Further details of approvals / standards**

Standards	DIN EN 50178, GL 2003-VI-Abs. 9, IEC 62314, UL508	Certificate No. (GERMLLOYD)
Certificate no. (cULus)	E141197	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

Ratings IECEx/ATEX/cUL

Certificate no. (cULus)	E141197
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Classifications

ETIM 6.0	EC001504	ETIM 7.0	EC001504
eClass 9.0	27-37-16-04	eClass 9.1	27-37-16-04
eClass 10.0	27-37-16-04	UNSPSC	30-21-18-01

Product information

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

Approvals



ROHS	Conform
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Downloads

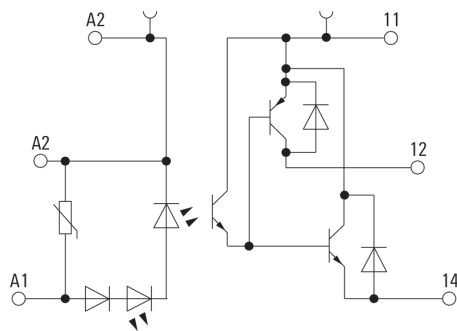
Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Brochure/Catalogue	CAT 4.2 ELECTR 18/19 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
User Documentation	Beipackzettel / Package Insert – multilingual

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Drawings

Wiring diagram



Dimensional drawing

