

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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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 volt-
	age: 24 V DC ±20 % , Rated switching voltage:
	533 V DC, Continuous current: 10 A, Screw con-
	nection
Order No.	<u>8937940000</u>
Туре	MOS 24VDC/5-33VDC 10A
GTIN (EAN)	4032248716173
Qty.	1 items
Delivery status	This article will no longer be available in the future.
Available until	2025-09-29T00:00:00+02:00
Alternative product	TOPH 24VDC 5-48VDC10A





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Technical data

Approvals	3
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Approvals	A A A	
	C C c(VL)us (UK
	LISTED	

ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate no. (cULus)	E141197

Dimensions and weights

Depth	97.8 mm	Depth (inches)	3.8504 inch
Height	88.1 mm	Height (inches)	3.4685 inch
Width	6.1 mm	Width (inches)	0.2402 inch
Net weight	38.81 g		

Temperatures

Storage temperature	-40 °C60 °C	Ambient temperature	-25 °C60 °C
Operating temperature		Humidity	5 - 93% rel. humidity, Tu =
			40°C, no condensation

Probability of failure

MTTF 399 a

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	d32f8e61-6733-45d6-9062-c95f9903aad6

Control side

Rated control voltage	24 V DC ±20 %	Power rating	400 mW
Status indicator	Green LED	Protective circuit	Varistor, Reverse polarity protection
Input frequency	50 Hz		

Load side

Rated switching voltage	533 V DC	Continuous current	10 A
Rated switching current	10 A	Load category	LC A
Pulse load, max. current	≤ 11 A (≤ 200 µs)	Switch-on delay	typ. 250 μs
Switch-off delay	typical. 700 µs	Voltage drop at max. load	approx. 100 mV
Leakage current	<1 mA	Min. switching current	10 mA
Short-circuit-proof	Yes (limited for 4 h / current limitation external <200 A)	Load side status indicator	LED red, short-circuit / overload at the output
Protective circuit, load side	Current sensor, Varistor, Free-wheeling diode	Contact type	1 NO contact (POWER MOS-FET)
max. switching frequency (DC control voltage)	50 Hz		

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Technical data

General data			
Mounting 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	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 KVeff / 1 Min.	Dielectric strength to mounting rail	4 kVeff / 1 Min
Impulse withstand voltage	4 kV (1.2/50 μs)	Protection degree	IP20
Further details of approvals /	etandarde		
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Certificate No. (DNV)	TAE000033E	Certificate no. (cULus)	E141197
Certificate No. (DNV)	TALOUUUSSL	Certificate flo. (COLus)	L141137
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
Important note			
	-	100	
Product information	The cable lengths must not	exceed 30 m.	
Classifications			
ETIM 0.0	E0004E04	ETIM 7.0	50004504
ETIM 6.0	EC001504	ETIM 7.0	EC001504
	EC001504	ETIM 9.0	EC001504
ETIM 8.0		E 01 4 0 0 0 0	
ETIM 10.0	EC001504	ECLASS 9.0	27-37-16-04
ETIM 10.0 ECLASS 9.1	EC001504 27-37-16-04	ECLASS 10.0	27-37-16-04
ETIM 10.0	EC001504		

ECLASS 15.0

Catalogue status / Drawings

27-37-16-04



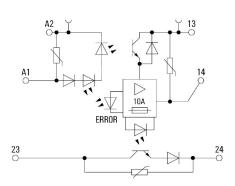
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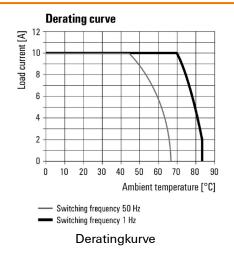
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Drawings

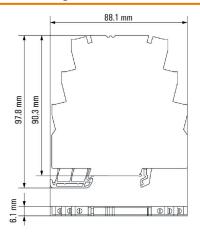
Wiring diagram



Graph



Dimensional drawing





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Accessories

Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

Type	SDS 0.6X3.5X100	Version
Order No.	2749340000	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade
GTIN (EAN)	4050118895568	thickness (A): 0.6 mm
Qty.	1 ST	
Туре	SDIS 0.6X3.5X100	Version
Type Order No.	SDIS 0.6X3.5X100 2749810000	Version Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade

MICROOPTO



Compact and powerful solid-state relays in terminal block format

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General ordering data

Туре	MOS FEED THROUGH	Version
Order No.	<u>8973450000</u>	MICROOPTO, Feed-through terminal, Screw connection
GTIN (EAN)	4032248799534	
Qty.	1 ST	

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Accessories

Slotted screwdriver



VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadiummolybdenum steel, gun-metal finish.

General ordering data

Туре SDIS SLIM 0.6X3.5X100 Order No. 2749610000 GTIN (EAN) 4050118896350 Qty.

1 ST

Version

Mounting tool, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade thickness (A): 0.6 mm

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General ordering data

Туре MOS SUPPLY Version Order No. 8973460000 MICROOPTO, Supply module, Screw connection GTIN (EAN) 4032248799541

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Accessories

Cross-connections









The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

General ordering data

General ordering data				
Туре	ZQV 4N/2	Version		
Order No.	<u>1527930000</u>	Cross-connector (terminal), Plugged, orange, 32 A, Number of poles:		
GTIN (EAN)	4050118332766	2, Pitch in mm (P): 6.10, Insulated: Yes, Width: 9.9 mm		
Qty.	60 ST			
Туре	ZQV 4N/2 RD	Version		
Order No.	<u>2460450000</u>	Cross-connector (terminal), Plugged, red, 32 A, Number of poles: 2,		
GTIN (EAN)	4050118476149	Pitch in mm (P): 6.10, Insulated: Yes, Width: 9.9 mm		
Qty.	60 ST			
Туре	ZQV 4N/2 BL	Version		
Order No.	<u>1528040000</u>	Cross-connector (terminal), Plugged, blue, 32 A, Number of poles: 2,		
GTIN (EAN)	4050118332773	Pitch in mm (P): 6.10, Insulated: Yes, Width: 9.9 mm		
Qty.	60 ST			
Туре	ZQV 4N/2 SW	Version		
Order No.	<u>1793970000</u>	W-Series, Cross-connector, 32 A		
GTIN (EAN)	4032248233762			
Qty.	60 ST			
Туре	ZQV 4N/3	Version		
Order No.	<u>1527940000</u>	Cross-connector (terminal), Plugged, orange, 32 A, Number of poles:		
GTIN (EAN)	4050118332865	3, Pitch in mm (P): 6.10, Insulated: Yes, Width: 16 mm		
Qty.	60 ST			
Туре	ZQV 4N/3 RD	Version		
Order No.	<u>2460810000</u>	Cross-connector (terminal), Plugged, red, 32 A, Number of poles: 3,		
GTIN (EAN)	4050118476231	Pitch in mm (P): 6.10, Insulated: Yes, Width: 16 mm		
Qty.	60 ST			
Туре	ZQV 4N/3 BL	Version		
Order No.	<u>1528080000</u>	Cross-connector (terminal), Plugged, blue, 32 A, Number of poles: 3,		
GTIN (EAN)	4050118333008	Pitch in mm (P): 6.10, Insulated: Yes, Width: 16 mm		
Qty.	60 ST			
Туре	ZQV 4N/3 SW	Version		
Order No.	<u>1794000000</u>	W-Series, Cross-connector, 32 A		
GTIN (EAN)	4032248233793			
Qty.	60 ST			
Туре	ZQV 4N/4	Version		
Order No.	<u>1527970000</u>	Cross-connector (terminal), Plugged, orange, 32 A, Number of poles:		
GTIN (EAN)	4050118332889	4, Pitch in mm (P): 6.10, Insulated: Yes, Width: 22.1 mm		
Qty.	60 ST			
Туре	ZQV 4N/4 RD	Version		
Order No.	2460800000	Cross-connector (terminal), Plugged, red, 32 A, Number of poles: 4,		
GTIN (EAN)	4050118476224	Pitch in mm (P): 6.10, Insulated: Yes, Width: 22.1 mm		
Qty.	60 ST			

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MOS 24VDC/5-33VDC 10A

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Туре	ZQV 4N/4 BL	Version
Order No.	<u>1528120000</u>	Cross-connector (terminal), Plugged, blue, 32 A, Number of poles: 4,
GTIN (EAN)	4050118332872	Pitch in mm (P): 6.10, Insulated: Yes, Width: 22.1 mm
Qty.	60 ST	
Туре	ZQV 4N/4 SW	Version
Order No.	<u>1794030000</u>	W-Series, Cross-connector, 32 A
GTIN (EAN)	4032248233915	
Qty.	60 ST	
Туре	ZQV 4N/10	Version
Order No.	<u>1528090000</u>	Cross-connector (terminal), Plugged, orange, 32 A, Number of poles:
GTIN (EAN)	4050118332896	10, Pitch in mm (P): 6.10, Insulated: Yes, Width: 58.7 mm
Qty.	20 ST	
Туре	ZQV 4N/10 RD	Version
Order No.	2460740000	Cross-connector (terminal), Plugged, red, 32 A, Number of poles: 10,
GTIN (EAN)	4050118476163	Pitch in mm (P): 6.10, Insulated: Yes, Width: 58.7 mm
Qty.	20 ST	
Туре	ZQV 4N/10 BL	Version
Order No.	<u>1528230000</u>	Cross-connector (terminal), Plugged, blue, 32 A, Number of poles: 10,
GTIN (EAN)	4050118333138	Pitch in mm (P): 6.10, Insulated: Yes, Width: 58.7 mm
Qty.	20 ST	
Туре	ZQV 4N/10 SW	Version
Order No.	<u>1794060000</u>	W-Series, Cross-connector, 32 A
GTIN (EAN)	4032248234059	
Qty.	20 ST	
Туре	ZQV 4N/20 GE	Version
Order No.	1909020000	W-Series, Cross-connector, 32 A
GTIN (EAN)	4032248535644	
Qty.	20 ST	
Туре	ZQV 4N/20 RT	Version
Order No.	<u>1909150000</u>	W-Series, Cross-connector, 32 A
GTIN (EAN)	4032248535934	
Qty.	20 ST	
Туре	ZQV 4N/20 BL	Version
Order No.	1909100000	W-Series, Cross-connector, 32 A
GTIN (EAN)	4032248535774	
Qty.	20 ST	
Туре	ZQV 4N/20 SW	Version
Order No.	1909120000	W-Series, Cross-connector, 32 A
GTIN (EAN)	4032248535804	
OTTIV (LAIV)		



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Accessories

Blank



WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.

- Can be fitted in strips or individually
- Markers in proven MultiCard format For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	WS 12/6 MC NE WS
Order No.	1609900000
GTIN (EAN)	4008190203467
Qty.	600 ST

Version

WS, Terminal marker, 12 x 6 mm, Pitch in mm (P): 6.00 Weidmueller,

Allen-Bradley, white