

#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com















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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 voltage: 24 V DC $\pm 20~\%$ , Rated switching voltage: 830 V DC, Continuous current: 2 A, Screw connection
Order No.	<u>8937970000</u>
Туре	MOS 24VDC/8-30VDC 2A
GTIN (EAN)	4032248716203
Qty.	1 items





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# Technical data

App	roval	ls
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Approvals		187 (31 183) (183 183
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		CO
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ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate no. (cULus)	E141197

## **Dimensions and weights**

Depth	97 mm	Depth (inches)	3.8189 inch
Height	88.1 mm	Height (inches)	3.4685 inch
Width	6.1 mm	Width (inches)	0.2402 inch
Net weight	35.81 g		

#### **Temperatures**

Storage temperature	-40 °C80 °C	Ambient temperature	-25 °C60 °C
Operating temperature		Humidity	5-95% relative humidity, Tu = 55°C, without condensation

## **Probability of failure**

MTTF 847 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	≤ 170 mW
Protective circuit	Varistor, Reverse polarity	Input frequency	125 Hz
	protection		

#### Load side

Rated switching voltage	830 V DC	Continuous current	2 A
Max. switching current	4 A	Load category	LC A
Switch-on delay	0.1 ms	Switch-off delay	<0.5 ms
Voltage drop at max. load	≤ 50 mV	Leakage current	<10 µA
Min. switching current	100 μΑ	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-wheeling diode
Contact type	1 NO contact (Intelligent POWER MOS-FET)	max. switching frequency (DC control voltage)	125 Hz
Nominal auxiliary voltage	830 V DC / max. 6 mA		

Creation date 27.11.2025 08:35:31 MEZ





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27-37-16-04

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# Technical data

Technical data			
General data			
., .			
Version	with functional earth connec	etion	
Mounting rail	TS 35		
Colour	black		
JL 94 flammability rating	V-0		
UL94 flammability rating component	Component	Housing	
	UL94 flammability rating	V-0	
nsulation coordination			
Rated voltage	30 V	Pollution severity	2
Surge voltage category	III	Dielectric strength for control side - load	
Juige voltage category	III	side	350 Vell / Tillill.
Dielectric strength to mounting rail	350 Veff / 1 min.	Impulse withstand voltage	500 V (1,2/50 μ)
Protection degree	IP20		
Further details of approvals /	standards		
Contificate No. (DNIV)	TAF000022F	Contificate to (Allier)	F141107
Certificate No. (DNV)	TAE000033E	Certificate no. (cULus)	E141197
Connection data			
Wire connection method	Screw connection	Stripping length, rated connection	7 mm
Fightening torque, min.	0.4 Nm	Tightening torque, max.	0.6 Nm
		3 1 1	
Clamping range, rated connection	2.5 mm <sup>2</sup>	Clamping range, min.	0.5 mm <sup>2</sup>
Clamping range, max.	4 mm²	Wire cross-section, solid, min.	0.5 mm <sup>2</sup>
Vire cross-section, solid, max.	4 mm <sup>2</sup>	Wire connection cross section, finely stranded, min.	0.5 mm <sup>2</sup>
Wire connection cross section, finely stranded, max.	2.5 mm <sup>2</sup>	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1.5 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm <sup>2</sup>	Blade size	0.6 x 3.5 mm
Important note			
Product information	The cable lengths must not	exceed 30 m	
	The dable lengthe macrier	5x5554 55 111.	
Classifications			
ETIM 6.0	EC001504	ETIM 7.0	EC001504
ETIM 8.0	EC001504	ETIM 9.0	EC001504
ETIM 10.0	EC001504	ECLASS 9.0	27-37-16-04
ECLASS 9.1	27-37-16-04	ECLASS 10.0	27-37-16-04
ECLASS 11.0	27-37-16-04	ECLASS 12.0	27-37-16-04
LOLINOU I I.O	27 37 10 0 <del>7</del>	LOL-100 12.0	27-07-10-04

ECLASS 13.0

ECLASS 15.0

Catalogue status / Drawings

ECLASS 14.0

27-37-16-04

27-37-16-04



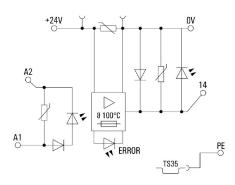
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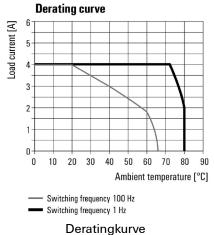
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# **Drawings**

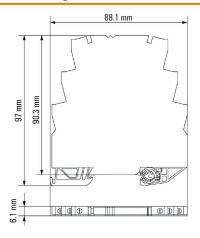
## Wiring diagram



## 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

Туре	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
• •		

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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.	1527970000	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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# Accessories

Туре	ZQV 4N/4 BL	Version
Order No.	1528120000	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.	1794030000	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.	<u>1909020000</u>	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.	<u>1909100000</u>	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	
	20 ST	



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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