

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com















1

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. The wide MICROOPTO portfolio includes a range of solutions for special loads. For example, for inductive loads up to 10 A at 24 V DC or for DC loads up to 300 V. In addition, there are solutions for decoupling 5 V TTL inputs and outputs, for frequencies up to 550 kHz, as well as the single CO contact version for inverting signals.

General ordering data

Version	MICROOPTO, Solid-state relay, Rated control voltage: 24 V DC $\pm 20~\%$, Rated switching voltage: 548 V DC, Continuous current: 500 mA, Screw connection
Order No.	<u>8937980000</u>
Туре	MOS 24VDC/5-48VDC 0,5A
GTIN (EAN)	4032248716210
Qty.	1 items





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Approvals	Αp	pro	ovals
-----------	----	-----	-------

Approvals	and a second second
	USTED DAY CA

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	34 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

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	160 mW
Status indicator	Green LED	Protective circuit	Varistor, Reverse polarity protection
Input frequency	1 kHz		

Load side

Rated switching voltage	548 V DC	Continuous current	0.5 A
Rated switching current	500 mA	Load category	LC A
Switch-on delay	<30 µs	Switch-off delay	<50 μs
Voltage drop at max. load	Max. 1 V	Leakage current	<1.5 mA
Short-circuit-proof	No	Protective circuit, load side	Free-wheeling diode
Contact type	1 CO contact (Transistor)	max. switching frequency (DC control voltage)	1 kHz

General data

Mounting rail	TS 35	
Colour	black	
UL 94 flammability rating	V-0	
UL94 flammability rating component	Component	Housing

Creation date 29.11.2025 04:23:56 MEZ





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

	UL94 flammability rating	V-O	
Insulation coordination			
Rated voltage	300 V	Pollution coverity	2
Surge voltage category	III	Pollution severity Clearance and creepage distances for control side - load side	> 3 mm
Dielectric strength for control side - load side	d 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 /	standards		
Certificate No. (DNV)	TAE000033E	Certificate no. (cULus)	E141197
Connection data	1	<u> </u>	
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 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm²	Blade size	0.6 x 3.5 mm
Important note			
Product information	The cable lengths must not	exceed 30 m.	
Classifications			
ETIM 0.0	50004504	ETIMA 2 0	50004504
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
ECLASS 13.0	27-37-16-04	ECLASS 14.0	27-37-16-04
ECLASS 15.0	27-37-16-04		



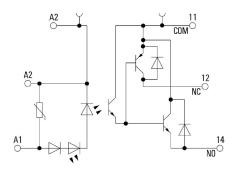
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

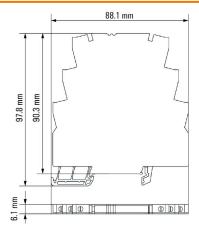
www.weidmueller.com

Drawings

Wiring diagram



Dimensional drawing





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

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
• •		

MICROOPTO



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 applicationspecific 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 endto-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. The wide MICROOPTO portfolio includes a range of solutions for special loads. For example, for inductive loads up to 10 A at 24 V DC or for DC loads up to 300 V. In addition, there are solutions for decoupling 5 V TTL inputs and outputs, for frequencies up to 550 kHz, as well as the single CO contact version for inverting signals.

General ordering data

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

Creation date 29.11.2025 04:23:56 MEZ



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

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

1 ST

Version

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

MICROOPTO

Qty.



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 applicationspecific 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 endto-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. The wide MICROOPTO portfolio includes a range of solutions for special loads. For example, for inductive loads up to 10 A at 24 V DC or for DC loads up to 300 V. In addition, there are solutions for decoupling 5 V TTL inputs and outputs, for frequencies up to 550 kHz, as well as the single CO contact version for inverting signals.

General ordering data

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



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

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	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					

Creation date 29.11.2025 04:23:56 MEZ

Weidmüller **₹**

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

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

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	



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

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

installation) for your labeling specifications.

 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

General ordering data

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

Version

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

Allen-Bradley, white