

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold

Germany

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The MICROOPTO SOLENOID solid-state relay is used especially as a switching amplifier for actuators up to 24 V DC and 10 A with inductive loads such as solenoid valves and contactors. 3-wire actuators can be connected directly to the module.

This is short-circuit proof and protected against application-related transients and spikes by extensive protective circuitry.

General ordering data

Order No.	<u>8937970000</u>
Туре	MOS 24VDC/8-30VDC 2A
Version	MICROOPTO, Solid-state relay, Rated control voltage: 24 V DC \pm 20 %, Rated switching voltage: 830 V DC, Rated switching current: 4 A, Screw connection
GTIN (EAN)	4032248716203
Qty.	1 pc(s).



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Technical data

D	im	en	sio	ns	and	we	ights	

Width	6.1 mm	Height	88 mm
Depth	98 mm	Net weight	35.81 g
Temperatures			
Operating temperature	-20 °C vgl. Derating	Storage temperature	-40 °C+80 °C
Probability of failure			
MTTF	847 Years		
	047 Teals		
Connection data			
Clamping range, rated connection	2.5 mm ²	Clamping range, rated connection, min.	0.5 mm ²
Clamping range, rated connection, ma	x. 4 mm²		
Control side			
Rated control voltage	24 V DC ±20 %	Power rating	≤ 170 mW
Input frequency	125 Hz	Cut-in (switch-on) voltage	> 13.8 V
Dropout voltage	< 13.6 V	Protective circuit, control side	Varistor, rev. polarity protection
Load side			
Rated switching voltage	830 V DC	Continuous current	2 A
Rated switching current	4 A	Switch-on delay	0.1 ms
Switch-off delay	< 0.5 ms	Load category	LC A
Leakage current	< 10 µA	Protective circuit, load side	Varistor, integrated free- wheel diode
Voltage drop at max. load	≤ 50 mV	Load side status indicator	Error message, red LED; status, green LED
Short-circuit-proof	Yes (thermal cut-out)		
General data			
Solid-state type	Intelligent POWER MOS- FET	No. of poles	1
Conductor connection system		Humidity	595 % rel. humidity $T_u = 55$ °C, no
UL 94 flammability rating	Screw connection	Standards	condensation DIN EN 50178, GL 2003
DL 94 Hammability rating	V-0	Standards	VI-Abs. 9, IEC 62314, UL508
Insulation coordination			
D		5.1	
Rated voltage	30 V	Dielectric strength for control side - load side	350 V _{eff} / 1 min.
Dielectric strength to mounting rail	350 V _{eff} / 1 min.	Impulse withstand voltage	500 V (1,2/50 μ)
Rated impulse withstand voltage	500 V (1.2/50 μs)	Pollution severity	2
Surge voltage category	II		



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Technical data

Further details of approvals

Standards DIN EN 50178, GL 2003-VI-Abs. 9, IEC 62314,

UL508

Classifications

ETIM 3.0	EC001504	UNSPSC	30-21-18-01
eClass 5.1	27-27-09-90	eClass 6.0	27-27-09-90
eClass 7.0	27-27-09-90		

Approvals

Approvals



Downloads

Declaration of Conformity	K300_11_08.pdf	
EPLAN	8937970000.ema	_
3-D model		_



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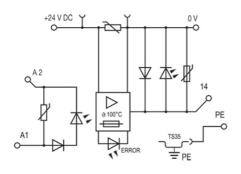
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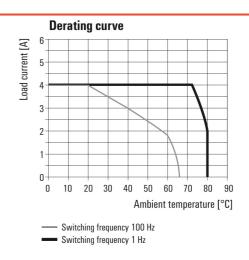
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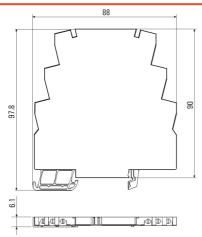
Drawings

Electric symbol





Derating curve





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Accessories

Blank



WS markers are the perfect match for the connectors of the W series. But thanks to their system compatibility the WS tags can also be used with the I series and the Z series. The large areas for printing permit not only long character strings but also multiple lines.

WS markers are ideal for labels with long, bespoke character strings. The tried-and-tested MultiCard format means that printing can be carried out with laser printers, **PrintJet**, **plotters** or the **MC-Mobilo**.

- Can be fitted in strips or singly
- · Markers in proven multicard format

General ordering data

Order No. Type	Version	GTIN (EAN)	Qty.
1609900000 WS 12/6 MC NE WS	Terminal markers,	400819020346	7 600 pc(s).
	MultiCard, 12 x 6 mm,		
	Polyamide, Colour: White		

ZQV 4N



Weidmüller offers users of modular terminals of the Z-Series a comprehensive range of accessories that render possible appropriate solutions for all - even non-standard - tasks.

The accessories must comply with the same quality standards as the modular terminals themselves.

General ordering data

Order No. Type	Version GTIN (EAN) Qty.
- //	
1758250000 ZQV 4N/2 GE	Z-series, Accessories, 4032248169795 60 pc(s).
	Cross-connector, For the
	terminals, No. of poles: 2
<u>1793960000</u> ZQV 4N/2 BL	Z-series, Accessories, 4032248233755 60 pc(s).
	Cross-connector, For the
	terminals, No. of poles: 2
1794060000 ZQV 4N/10 SW	Z-series, Accessories, 403224823405920 pc(s).
	Cross-connector, For the
	terminals, No. of poles: 10
1762630000 ZQV 4N/3 GE	Z-series, Accessories, 403224816978860 pc(s).
	Cross-connector, For the
	terminals, No. of poles: 3
1793970000 ZQV 4N/2 SW	Z-series, Accessories, 4032248233762 60 pc(s).
	Cross-connector, For the
	terminals, No. of poles: 2
1794010000 ZQV 4N/4 RT	Z-series, Accessories, 4032248233809 60 pc(s).
	Cross-connector, For the
	terminals, No. of poles: 4

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Accessories

1794000000 ZQV 4N/3 SW	Z-series, Accessories, 403224823379360 pc(s).
	Cross-connector, For the
	terminals, No. of poles: 3
1794040000 ZQV 4N/10 RT	Z-series, Accessories, 403224823400420 pc(s).
	Cross-connector, For the
	terminals, No. of poles: 10
1794020000 ZQV 4N/4 BL	Z-series, Accessories, 4032248233816 60 pc(s).
	Cross-connector, For the
	terminals, No. of poles: 4
1794050000 ZQV 4N/10 BL	Z-series, Accessories, 403224823401120 pc(s).
	Cross-connector, For the
	terminals, No. of poles: 10
1793990000 ZQV 4N/3 BL	Z-series, Accessories, 4032248233786 60 pc(s).
	Cross-connector, For the
	terminals, No. of poles: 3
1794030000 ZQV 4N/4 SW	Z-series, Accessories, 4032248233915 60 pc(s).
	Cross-connector, For the
	terminals, No. of poles: 4
1762620000 ZQV 4N/4 GE	Z-series, Accessories, 403224816977160 pc(s).
	Cross-connector, For the
	terminals, No. of poles: 4
1758260000 ZQV 4N/10 GE	Z-series, Accessories, 403224816976420 pc(s).
	Cross-connector, For the
	terminals, No. of poles: 10
1793950000 ZQV 4N/2 RT	Z-series, Accessories, 4032248233748 60 pc(s).
	Cross-connector, For the
	terminals, No. of poles: 2
1793980000 ZQV 4N/3 RT	Z-series, Accessories, 4032248233779 60 pc(s).
	Cross-connector, For the
	terminals, No. of poles: 3

Accessories



The MICROOPTO range of products provide the user with the tried and tested characteristics of terminal blocks. Pluggable cross-connections and harmonised marking solutions packaged in a minimum design width. Best performance within a small footprint.

- 6.1 mm width
- Plug-in standard ZQV 4N cross-connection
- Suitable for labelling with the MultiCard system
- Suitable for mounting on TS35 rail
- Housing material made of WEMID (higher thermal stability in comparison with polyamide)

General ordering data

Order No. Type	Version	GTIN (EAN)	Qty.
8973450000 MOS FEED THROUGH	MICROOPTO, Accessories,	403224879953	4 1 pc(s).
	Screw connection		
8973460000 MOS SUPPLY	MICROOPTO, Accessories,	403224879954	1 1 pc(s).
	Screw connection		



Accessories

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Screwdrivers



Always the right tools:

Weidmüller screwdrivers are the result of a consistent grip concept which takes into account both the human hand and the different requirements when working. The right blade for every screw - with four different handle sizes

The advantages are obvious:

- User-friendly: ergonomic handle arrangement for effortless working progress
- Optimised connections: compatible blade and perfect handle size for maximum torque
- · Reliable: even easier operation for even quicker wiring

The result: efficient, professional working progress.

General ordering data

Order No. Type	Version	GTIN (EAN)	Qty.
9008330000 SDS 0.6X3.5X100	Screwdriver, Blade width	403224805628	36 1 pc(s).
	(B): 3.5 mm, Blade length:		
	100 mm, Blade thickness		
	(A): 0.6 mm		

QB 58, QB 75, uninsulated



Poles are easy to break off for contacts that do not require a connection.

Cross-connection, plain-cut (with insulation profile as electric-shock protection if required).

6.0 mm and 8.0 mm pitches

The mounting tolerances of the terminals must be taken into account.

General ordering data

Order No.	Туре	Version	GTIN (EAN)	Qty.
0526760000	ISPF QB75 RT	Accessories, Insulation	4008190157821	I 10 pc(s).
		profile		
0526780000	ISPF QB75 BL	Accessories, Insulation	4008190093105	5 10 pc(s).
		profile		
0526700000	ISPF QB75 SW	Accessories, Insulation	4008190093723	3 10 pc(s).
		profile		
0535200000	QB 75/6.2/15	SAK Series, Accessories,	4008190179168	3 10 pc(s).
		Cross-connector, for cross-		
		connection link, No. of		
		poles: 75		