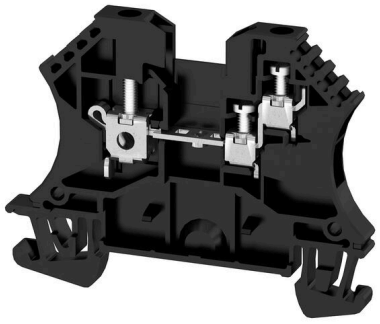
Data sheet

WDU 2.5/1.5/ZR SW

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image



To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

General ordering data

Version	Feed-through terminal block, Screw connection, black, 2.5 mm², 24 A, 800 V, Number of connections: 1
Order No.	1833840000
Type	WDU 2.5/1.5/ZR SW
GTIN (EAN)	4050118128925
Qty.	50 items

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693

Dimensions and weights

Depth	46.5 mm	Depth (inches)	1.8307 inch
Height	60 mm	Height (inches)	2.3622 inch
Width	5.1 mm	Width (inches)	0.2008 inch
Net weight	7.54 g		

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-60 °C...85 °C
Continuous operating temp., min.	-60 °C	Continuous operating temp., max.	130 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	
Product Carbon Footprint	Cradle to gate	0,176 kg CO2 eq.

Material data

Basic material	Wemid	Colour	black
UL 94 flammability rating	V-0		

Rating data IECEx/ATEX

Certificate No. (ATEX)	DEMKO14ATEX1338U	Certificate No. (IECEX)	IECEXULD14.0005U
Max. voltage (ATEX)	690 V	Current (ATEX)	24 A
Wire cross section max. (ATEX)	2.5 mm²	Max. voltage (IECEX)	690 V
Current (IECEX)	24 A	Wire cross section max. (IECEX)	2.5 mm²
Marking EN 60079-7	Ex eb II C Gb	Ex 2014/34/EU label	II 2 G D

System specifications

Version	Screw connection, Additional connection, for screwable cross-connection, One end without connector	End cover plate required	Yes
Number of potentials	1	Number of levels	1
Number of clamping points per level	3	Number of potentials per tier	1
Levels cross-connected internally	No	PE connection	No
Mounting rail	TS 35	N-function	No
PE function	No	PEN function	No

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Technical data

2 clampable conductors (H05V/H07V) with equal cross-section (rated connection)

Cross-section for connected wire, solid, two clampable wires, max.	2.5 mm²	Cross-section for connected wire, solid, two clampable wires, min.	0.5 mm²
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max.	1.5 mm²	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min.	0.5 mm²
Wire cross-section, finely stranded, two clampable wires, max.	1.5 mm²	Wire connection cross section, finely stranded, two clampable wires, min.	0.5 mm²

Additional technical data

Open sides	right	Number of similar terminals	1
Explosion-tested version	Yes	Type of mounting	Snap-on

Conductors for clamping (additional connection)

Terminal screw, additional connection	M 2.5	Connection direction additional connection	on side
Clamping range, further connection, max.	2.5 mm²	Clamping range, further connection, min.	0.13 mm²
Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max.	1.5 mm²	Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, min.	0.5 mm²
Conductor cross-section, flexible, further connection, min.	0.5 mm²	Number of connections, additional connection	2
Rated cross-section, further connection	1.5 mm²	Blade size, additional connection	SD 0.6 x 3.5
Cross-section for connected wire, multi-core, further connection, min.	0.5 mm²	Cross-section for connected wire, multi-core, further connection, max.	2.5 mm²
Tightening torque, additional connection, max.	0.6 Nm	Cross-section for connected wire, AWG, additional connection, min.	AWG 26
Rated current, additional connection	17.5 A	Cross-section for connected wire, solid-core, further connection, min.	0.5 mm²
Cross-section for connected wire, solid-core, further connection, max.	2.5 mm²	Connection type, additional connection	Screw connection
Cross-section for connected wire, flexible, further connection, max.	1.5 mm²	Cross-section for connected wire, AWG, additional connection, max.	AWG 12
Stripping length , additional connection	7 mm	Tightening torque, additional connection, min.	0.4 Nm

Conductors for clamping (rated connection)

Gauge to IEC 60947-1	A3, A1
Wire connection cross section AWG, max.	AWG 12
Connection direction	on side
Tightening torque, max.	0.6 Nm
Tightening torque, min.	0.4 Nm
Stripping length	10 mm
Type of connection	Screw connection
Number of connections	1
Clamping range, max.	4 mm²
Clamping range, min.	0.05 mm²
Clamping screw	M 2.5
Blade size	0.6 x 3.5 mm
Wire connection cross section AWG, min.	AWG 30
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm²

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Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.05 mm²			
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	2.5 mm²			
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.05 mm²			
Wire connection cross section, finely stranded, max.	4 mm²			
Wire connection cross section, finely stranded, min.	0.05 mm²			
Connection cross-section, stranded, max.	4 mm²			
Connection cross-section, stranded, min.	0.05 mm²			
Twin wire-end ferrules, max.	1.5 mm²			
Twin wire-end ferrules, min.	0.5 mm²			
Torque level with DMS electric screwdriver	1			
Wire connection cross-section, solid core, max.	4 mm²			
Wire connection cross-section, solid core, min.	0.05 mm²			
Connection cross-section, finely stranded, min.	0.05 mm²			
Clampable conductor	Connection specification	Screw connection		
	Cross-section for conductor connection	Type	solid, H05(07) V-U	
		min.	0.5 mm²	
		max.	4 mm²	
		nominal	2.5 mm²	
	wire end ferrule	Stripping length	min.	10 mm
			max.	10 mm
			nominal	10 mm
		Tightening torque	min.	0.4 Nm
			max.	0.6 Nm
	Connection specification	Screw connection		
	Cross-section for conductor connection	Type	stranded, H07V-R	
		min.	1.5 mm²	
		max.	4 mm²	
		nominal	2.5 mm²	
	wire end ferrule	Stripping length	min.	10 mm
			max.	10 mm
			nominal	10 mm
		Tightening torque	min.	0.4 Nm
			max.	0.6 Nm
	Connection specification	Screw connection		
	Cross-section for conductor connection	Type	flexible, H05(07) V-K	
		min.	0.5 mm²	
		max.	4 mm²	
		nominal	2.5 mm²	
	wire end ferrule	Stripping length	min.	10 mm
			max.	10 mm
			nominal	10 mm
		Tightening torque	min.	0.4 Nm
			max.	0.6 Nm

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Technical data

General

Wire connection cross section AWG, max.	AWG 12	Wire connection cross section AWG, min.	AWG 30
Standards	IEC 60947-7-1	Mounting rail	TS 35

Rating data

Rated cross-section	2.5 mm²	Rated voltage	800 V
Rated DC voltage	800 V	Nominal current	24 A
Current at maximum wires	32 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	1.33 mΩ	Rated impulse withstand voltage	8 kV
Power loss in accordance with IEC 60947-7-x	0.77 W	Surge voltage category	III
Pollution severity	3		

UL rating data

Voltage size B (UR)	300 V	Current size B (UR)	20 A
Conductor size Factory wiring max. (UR)	12 AWG	Current size C (UR)	20 A
Voltage size C (UR)	300 V	Conductor size Factory wiring min. (UR)	30 AWG
Certificate No. (UR)	E60693	Conductor size Field wiring min. (UR)	30 AWG
Conductor size Field wiring max. (UR)	12 AWG		

Classifications

ETIM 8.0	EC000897	ETIM 9.0	EC000897
ETIM 10.0	EC000897	ECLASS 14.0	27-25-01-01
ECLASS 15.0	27-25-01-01		

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Drawings