

WDU 2.5 BL**Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

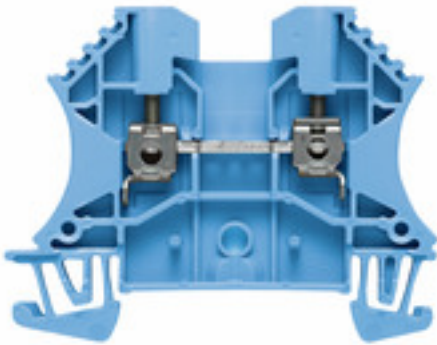
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Product image

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, Screw connection, 2.5 mm ² , 800 V, 24 A, blue
Order No.	1020080000
Type	WDU 2.5 BL
GTIN (EAN)	4008190163235
Qty.	100 pc(s).

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Technical data

Dimensions and weights

Depth	46.5 mm	Depth (inches)	1.831 inch
Height	60 mm	Height (inches)	2.362 inch
Width	5.1 mm	Width (inches)	0.201 inch
Net weight	7.43 g		

Temperatures

Storage temperature		Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity
	-25 °C...55 °C		
Continuous operating temp., min.	-60 °C	Continuous operating temp., max.	130 °C

Material data

Material	Wemid	Colour	blue
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 mm ²	Max. voltage (IECEX)	690 V
Current (IECEX)	24 A	Wire cross section max. (IECEX)	2.5 mm ²
Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity	Marking EN 60079-7	
Ex 2014/34/EU label	II 2 G D		Ex eb II C Gb

System specifications

Version	Screw connection, for plug-in cross-connector, 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	2	Number of potentials per tier	1
Levels cross-connected internally	No	PE connection	No
Rail	TS 35	N-function	Yes
PE function	No	PEN function	No

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

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

Additional technical data

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

Creation date July 5, 2023 2:59:51 PM CEST

Catalogue status 24.06.2023 / We reserve the right to make technical changes.

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CSA rating data

Certificate No. (CSA)	200039-1057876	Current size C (CSA)	www.weidmueller.com
Voltage size C (CSA)	600 V	Wire cross section max. (CSA)	12 AWG
Wire cross section min. (CSA)	26 AWG		

Conductors for clamping (rated connection)

Blade size	0.6 x 3.5 mm		
Clampable conductor	Connection specification	Screw connection	
		Cross-section for conductor connection	Type solid, H05(07) V-U
			min. 0.5 mm ²
			max. 4 mm ²
		nominal 2.5 mm ²	
	wire end ferrule	Stripping length	min. 10 mm
			max. 10 mm
			nominal 10 mm
		Tightening torque	min. 0.4 Nm
		max. 0.8 Nm	
		Recommended wire-end ferrule	
	Connection specification	Screw connection	
		Cross-section for conductor connection	Type stranded, H07V-R
			min. 1.5 mm ²
			max. 4 mm ²
		nominal 2.5 mm ²	
	wire end ferrule	Stripping length	min. 10 mm
			max. 10 mm
			nominal 10 mm
		Tightening torque	min. 0.4 Nm
		max. 0.8 Nm	
		Recommended wire-end ferrule	
	Connection specification	Screw connection	
		Cross-section for conductor connection	Type flexible, H05(07) V-K
		min. 0.5 mm ²	
		max. 2.5 mm ²	
	nominal 2.5 mm ²		
wire end ferrule	Stripping length	min. 10 mm	
		max. 10 mm	
		nominal 10 mm	
	Tightening torque	min. 0.4 Nm	
	max. 0.8 Nm		
	Recommended wire-end ferrule		
Clamping range, max.	4 mm ²		
Clamping range, min.	0.05 mm ²		
Clamping screw	M 2.5		
Connection cross-section, stranded, max.	4 mm ²		
Connection cross-section, stranded, min.	1.5 mm ²		
Connection direction	on side		
Gauge to IEC 60947-1	A3		
Number of connections	2		
Stripping length	10 mm		
Tightening torque, max.	0.8 Nm		
Tightening torque, min.	0.4 Nm		

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Torque level with DMS electric screwdriver	1	
Twin wire-end ferrules, max.	1.5 mm ²	
Twin wire-end ferrules, min.	0.5 mm ²	
Type of connection	Screw connection	
Wire connection cross section AWG, max.	AWG 12	
Wire connection cross section AWG, min.	AWG 30	
Wire connection cross section, finely stranded, max.	4 mm ²	
Wire connection cross section, finely stranded, min.	0.5 mm ²	
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	2.5 mm ²	
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.5 mm ²	
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, 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, solid core, max.	4 mm ²	
Wire connection cross-section, solid core, min.	0.5 mm ²	

General

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

Rating data

Rated cross-section	2.5 mm ²	Rated voltage	800 V
Rated 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
Pollution severity	3		

UL rating data

Certificate No. (UR)	E60693	Conductor size Factory wiring max. (UR)	12 AWG
Conductor size Factory wiring min. (UR)	30 AWG	Conductor size Field wiring max. (UR)	12 AWG
Conductor size Field wiring min. (UR)	28 AWG	Current size B (UR)	25 A
Current size C (UR)	25 A	Voltage size B (UR)	600 V
Voltage size C (UR)	600 V		

Classifications

ETIM 6.0	EC000897	ETIM 7.0	EC000897
ETIM 8.0	EC000897	ECLASS 9.0	27-14-11-20
ECLASS 9.1	27-14-11-20	ECLASS 10.0	27-14-11-20
ECLASS 11.0	27-14-11-20	ECLASS 12.0	27-14-11-20

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693
Certificate No. (cURusEX)	E184763

Downloads

Approval/Certificate/Document of Conformity	Attestation of Conformity IECEX Certificate CB Testreport CB Certificate EAC certificate DNVGL certificate NEMKO certificate Lloyds Register Certificate MARITREG Certificate POLSKIREJ certificate EAC EX Certificate CCC Ex Certificate UKCA Ex Certificate CE Declaration of Conformity ATEX Certificate CE Declaration of Conformity all terminals UKCA declaration of conformity
Engineering Data	CAD data – STEP
Engineering Data	WSCAD, Zuken E3.S, EPLAN
User Documentation	NTI WDU/WPE 2.5.pdf Usage of terminals in EXi atmospheres StorageConditionsTerminalBlocks
Catalogues	Catalogues in PDF-format
Brochures	

Data sheet

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Drawings

