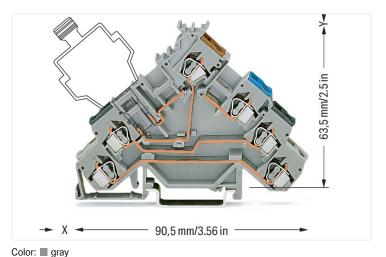
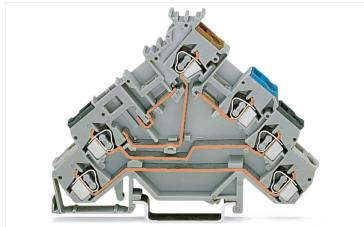
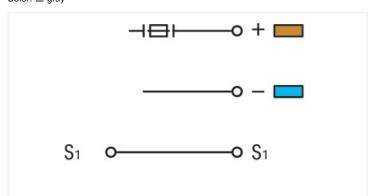
4-conductor sensor terminal block; for PNP (positive) switching sensors; for fuse plugs; without end plate; with colored conductor entries; 2.5 mm²; CAGE CLAMP[®]; 2,50 mm²; gray



https://www.wago.com/280-588







Sensor terminal block, 280 Series, gray

Our sensor terminal block (item number 280-588) ensures effortless electrical installations. Ensure that the strip lengths are between 8 mm and 9 mm when connecting conductors to this sensor terminal block. This product features conductor terminals and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection offers a reliable and maintenance-free way to connect all types of conductors. You do not need to prepare the conductor in any way, such as crimping ferrules. This sensor terminal block is suitable for conductor cross sections ranging from 0.08 mm² to 2.5 mm². It comes with four levels and six clamping points that you can use to connect five potentials. The gray housing is made of polyamide (PA66) for insulation. These function terminal blocks are mounted using DIN-35 rails..

Electrical data			
Ratings per IEC/EN		Ratings per IEC/EN – Notes	
Nominal voltage (III/3)	125 V	Ratings (note)	Electrical ratings are given by the fuse
Rated current	5 A		plug or empty component plug housing.
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3		

Ratings per IEC/EN 2			Power Loss	
Rated voltage (III/3)	250 V		Power loss, per pole (potential)	0.0333 W
Rated current	6.3 A	6.3 A	Rated current I_N for specified power loss	5 A
			Resistance value for specified, current- dependent power loss	0.00133 Ω

Data Sheet | Item Number: 280-588 https://www.wago.com/280-588

General information	
LED switching for	PNP



Connection data			
Clamping units	6	Connection 1	
otal number of potentials	5	Connection technology	CAGE CLAMP®
umber of levels	4	Actuation type	Operating tool
		Connectable conductor materials	Copper Aluminum
		Connectable conductor materials (note)	Terminating Aluminum Conductors WAGO Spring-Clamp Terminal Blocks a suitable for solid aluminum conductors up to 4 mm²/12 AWG if WAGO "Alu-Plu: Contact Paste 249-130 is used for termination.
			"Alu-Plus" Contact Paste Advantages:
			 Automatically destroys the oxide film during clamping. Prevents fresh oxidation at the clamping point. Prevents electrolytic corrosion between aluminum and copper conductor (in the same terminal block). Provides long-term protection agains corrosion.
			Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, aluminum conductors mufirst be cleaned with a blade and then immediately inserted into the clamping units filled with "Alu-Plus" contact past
			Plus" additionally on the whole surface of the aluminum conductor before tern nation.
			Please note that the nominal currents must be adapted to the reduced condi- tivity of the aluminum conductors:: 2.5 mm ² = 16 A 4 mm ² = 22 A
		Solid conductor	0.08 2.5 mm² / 28 12 AWG
		Fine-stranded conductor	$0.08 \dots 2.5 \ \text{mm}^2 \ / \ 28 \dots 12 \ \text{AWG}$
		Note (conductor cross-section)	12 AWG: THHN, THWN
		Strip length	8 9 mm / 0.31 0.35 inches

Physical data	
Width	5 mm / 0.197 inches
Height	90.5 mm / 3.563 inches
Depth from upper-edge of DIN-rail	63.5 mm / 2.5 inches

Wiring direction

Front-entry wiring

Data Sheet | Item Number: 280-588 https://www.wago.com/280-588



Mechanical data	
Design	angled
Mounting type	DIN-35 rail
Marking level	Center marking

Material data	
Note (material data)	
	<u>Information on material specifications can be found here</u>
Color	gray
Material group	T. Control of the con
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.326 MJ
Weight	17 g

Environmental requirements	
Processing temperature	-35 +85 °C
Continuous operating temperature	-60 +105 °C

Commercial data	
Product Group	1 (Rail Mounted Terminal Blocks)
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454559441
Customs tariff number	85369010000

Product classification	
UNSPSC	39121410
eCl@ss 10.0	27-14-11-28
eCl@ss 9.0	27-14-11-28
ETIM 9.0	EC000900
ETIM 8.0	EC000900
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals



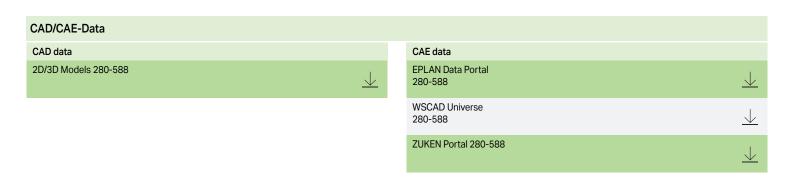
Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2	1536071
UR Underwriters Laboratories Inc.	UL 1059	E45172

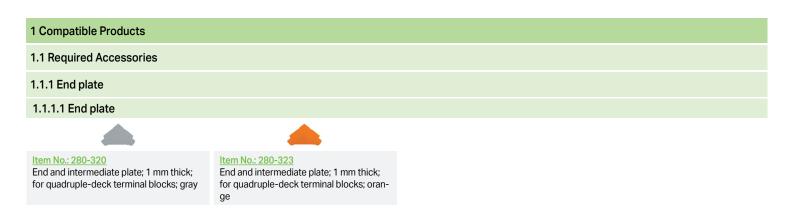
https://www.wago.com/280-588



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Documentation Bid Text 280-588 xml 3.52 KB 280-588 doc 25.00 KB





1.2 Optional Accessories

1.2.1 DIN-rail

1.2.1.1 Mounting accessories









Item No.: 210-196

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

Item No.: 210-198

Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored

Item No.: 210-508

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored

Item No.: 210-197

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored

https://www.wago.com/280-588



1.2.1.1 Mounting accessories



Item No.: 210-506

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored



Item No.: 210-114

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored



Item No.: 210-118

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored



Item No.: 210-115

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored



Item No.: 210-112

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored

em No · 210-504

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored

Item No.: 210-113

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715: silver-colored

Item No.: 210-505

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

1.2.2 Ferrule

1.2.2.1 Ferrule

Item No.: 216-301



Ferrule; Sleeve for 0.25 mm² / AWG 24; in-

sulated; electro-tin plated; yellow

Item No.: 216-302 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

Item No.: 216-201

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 4/09.90; white

Item No.: 216-101

Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored



Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-

sulated; electro-tin plated; gray

Item No.: 216-102

Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-co-lored

Item No.: 216-203

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

Item No.: 216-103

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated



<u>Item No.: 216-204</u>

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black

Item No.: 216-104

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored

1.2.3 Installation

1.2.3.1 Cover



Item No.: 709-154

Cover; Type 2; suitable for cover carrier, type 2; 1 m long; transparent

1.2.3.2 Cover carrier



Item No.: 709-168

Cover carrier; Type 2; incl. fixing/retaining screws and knurled nut; suitable for 283 to 285 Series rail-mounted terminal blocks; suitable for 279 to 281 Series double- and triple-deck terminal blocks; suitable for 780 to 785, 775, 776 and 777 Series TOPJOB® rail-mounted terminal blocks; suitable for 280 Series sensor and actuator terminal blocks; suitable for 282 Series disconnect/test terminal blocks for transformer circuits; gray



1.2.3.3 Mounting accessories



Item No.: 249-116

Screwless end stop; 6 mm wide; for DINrail 35 x 15 and 35 x 7.5; gray

1.2.4 Insulation stop

1.2.4.1 Insulation stop



Item No.: 280-470

Insulation stop; 0.08 - 0.2 mm² "s" (0.14 mm2 "f-st"); 5 pieces/strip; white



Insulation stop; 0.25 - 0.5 mm²; 5 pieces/ strip; light gray

00000

Item No.: 280-472

Insulation stop; 0.75 - 1 mm²; 5 pieces/ strip; black

1.2.5 Jumper

1.2.5.1 Jumper

Item No.: 280-490

Jumper; 10-way; insulated; gray

HILLIAN

Item No.: 280-482

Jumper; 2-way; insulated; gray

Item No.: 280-492

Jumper; 2-way; insulated; gray

Item No.: 280-483

Jumper; 3-way; insulated; gray

Item No.: 280-484

Jumper; 4-way; insulated; gray

Item No.: 280-485

Jumper; 5-way; insulated; gray

Item No.: 280-402

Jumper; insulated; gray

Item No.: 780-452

Staggered jumper; from 1 to 2; insulated;

gray

Item No.: 780-453

Staggered jumper; from 1 to 3; insulated;

gray

Item No.: 780-454

Staggered jumper; from 1 to 4; insulated; gray

Item No.: 780-455

Staggered jumper; from 1 to 5; insulated; gray

Item No.: 780-456

Staggered jumper; from 1 to 6; insulated;

gray

Item No.: 780-457

Staggered jumper; from 1 to 7; insulated; gray

Item No.: 780-458

Staggered jumper; from 1 to 8; insulated;

Item No.: 709-110

Wire commoning chain; 2.5 mm²; insulated: black

Item No.: 709-111

Wire commoning chain; 2.5 mm2; insulated; black



Item No.: 709-112

Wire commoning chain; 2.5 mm²; insulated: black

Item No.: 210-103 Wire commoning chain; insulated; black Item No.: 210-123

Wire commoning chain; insulated; blue

1.2.6 Marking

1.2.6.1 Marker



Item No.: 793-5501/000-006

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; blue



Item No.: 793-5501/000-007 WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; gray



Item No.: 793-5501/000-023

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; green



Item No.: 793-5501/000-017

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; light green



Item No.: 793-5501/000-012

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; orange



WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; red



Item No.: 793-5501/000-024

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; violet



Item No.: 793-5501

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; white

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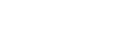
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1.2.6.1 Marker











Item No.: 793-5501/000-002 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; yellow Item No.: 793-501/000-006 WMB marking card; as card; not stretchable; plain; snap-on type; blue Item No.: 793-501/000-007 WMB marking card; as card; not stretchable; plain; snap-on type; gray Item No.: 793-501/000-023 WMB marking card; as card; not stretchable; plain; snap-on type; green



Item No.: 793-501/000-017

WMB marking card; as card; not stretchable; plain; snap-on type; light green



WMB marking card; as card; not stretcha-

Item No.: 793-501/000-005

WMB marking card; as card; not stretchable; plain; snap-on type; red



Item No.: 793-501/000-024

WMB marking card; as card; not stretchable; plain; snap-on type; violet



Item No.: 793-501

WMB marking card; as card; not stretchable; plain; snap-on type; white



Item No.: 793-501/000-012

ble; plain; snap-on type; orange

<u>Item No.: 793-501/000-002</u> <u>Item No.: 200</u>

WMB marking card; as card; not stretchable; plain; snap-on type; yellow



WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type: blue

Item No.: 2009-115/000-007

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray



Item No.: 2009-115/000-023

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green



WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green

4

Item No.: 2009-115/000-012

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

Item No.: 2009-115/000-024

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

Item No.: 2009-115

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

Item No.: 2009-115/000-002

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

1.2.7 Plug

1.2.7.1 Empty component plug housing



Item No.: 280-801

Empty component plug housing; gray

1.2.7.2 Fuse plug



Fuse plug; with pull-tab; for miniature metric fuses 5 x 20 mm and 5 x 25 mm; with blown fuse indication by neon lamp; 120 V; 6 mm wide; gray

Item No.: 281-512/281-417

Fuse plug; with pull-tab; for miniature metric fuses 5 x 20 mm and 5 x 25 mm; with blown fuse indication by neon lamp; 230 V; 6 mm wide; gray

Item No.: 281-512/281-501

Fuse plug; with pull-tab; for miniature metric fuses 5 x 20 mm and 5 x 25 mm; with LED indicator; 24 V AC/DC; 6 mm wide; gray

Item No.: 281-512

Fuse plug; with pull-tab; for miniature metric fuses 5 x 20 mm and 5 x 25 mm; with port for LED; 6 mm wide; gray

Item No.: 281-511

Fuse plug; with pull-tab; for miniature metric fuses 5 x 20 mm and 5 x 25 mm; without blown fuse indication; 6 mm wide; gray

Item No.: 280-854

Fuse plug; with soldered miniature fuse; 1 A FF; 5 mm wide; gray

Item No.: 280-856

Fuse plug; with soldered miniature fuse; 2 A FF; 5 mm wide; gray

Item No.: 280-850

Fuse plug; with soldered miniature fuse; 250 mA FF; 5 mm wide; gray

Item No.: 280-852

Fuse plug; with soldered miniature fuse; 500 mA FF; 5 mm wide; gray

Item No.: 280-854/281-415

Fuse plug; with soldered miniature fuse; with indicator lamp; LED (red); AC 15 - 30 V; 1 A FF; 5 mm wide; gray

Item No.: 280-856/281-415

Fuse plug; with soldered miniature fuse; with indicator lamp; LED (red); AC 15 - 30 V; 2 A FF; 5 mm wide; gray

Item No.: 280-850/281-415

Fuse plug; with soldered miniature fuse; with indicator lamp; LED (red); AC 15 - 30 V; 250 mA FF; 5 mm wide; gray

Item No.: 280-852/281-415

Fuse plug; with soldered miniature fuse; with indicator lamp; LED (red); AC 15 - 30 V; 500 mA FF; 5 mm wide; gray Item No.: 280-854/281-413

Fuse plug; with soldered miniature fuse; with indicator lamp; LED (red); DC 15 - 30 V; 1 A FF; 5 mm wide; gray

Item No.: 280-856/281-413

Fuse plug; with soldered miniature fuse; with indicator lamp; LED (red); DC 15 - 30 V; 2 A FF; 5 mm wide; gray Item No.: 280-850/281-413

Fuse plug; with soldered miniature fuse; with indicator lamp; LED (red); DC 15 - 30 V; 250 mA FF; 5 mm wide; gray

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1.2.7.2 Fuse plug



Item No.: 280-852/281-413

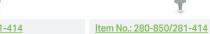
Fuse plug; with soldered miniature fuse; with indicator lamp; LED (red); DC 15 - 30 V; 500 mA FF; 5 mm wide; gray



Item No.: 280-856/281-414

Fuse plug; with soldered miniature fuse; with indicator lamp; LED (red); DC 30 - 65 V; 1 A FF; 5 mm wide; gray

Fuse plug; with soldered miniature fuse; with indicator lamp; LED (red); DC 30 - 65 V; 2 A FF; 5 mm wide; gray



Fuse plug; with soldered miniature fuse; with indicator lamp; LED (red); DC 30 - 65 V; 250 mA FF; 5 mm wide; gray



Item No.: 280-852/281-414

Fuse plug; with soldered miniature fuse; with indicator lamp; LED (red); DC 30 - 65 V; 500 mA FF; 5 mm wide; gray

1.2.8 Protective warning marker

1.2.8.1 Cover



Item No.: 280-415

Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

1.2.9 Push-in type wire jumper

1.2.9.1 Jumper



Push-in type wire jumper; 0.75 mm²; insulated; 110 mm long; black

Item No.: 249-123

Push-in type wire jumper; 0.75 mm²; insulated; 180 mm long; black

Item No.: 249-127

Push-in type wire jumper; 0.75 mm²; insulated; 250 mm long; black

Item No.: 249-125

Push-in type wire jumper; insulated; 60 mm long; black

1.2.10 Test and measurement

1.2.10.1 Testing accessories



Item No.: 209-170

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plugs; suitable for 1.5 mm² - 10 mm² tbs; gray

1.2.11 Tool

1.2.11.1 Operating tool



Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short; multicoloured

Item No.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Item No.: 210-657

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured

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Installation Notes

Installation



Snapping a terminal block onto the DIN-rail.

Terminal blocks with a grounding foot automatically establish a direct contact to the rail.



Removing the terminal block from DIN-rail. Notice: Remove jumper contacts first!

Conductor termination



CAGE CLAMP® connection

Inserting a conductor via straight operating tool (210-720).



CAGE CLAMP® connection

Inserting a conductor via angled operating tool (210-658).

Commoning



Commoning using an adjacent jumper (280-402).

Push jumper down until fully inserted.

Testing



Testing via banana plug and test plug adapter (209-170).



Testing via voltage tester directly on the current bar.

Application

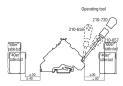


Sensor terminal block (with a fuse plug) paired with a 3-conductor sensor

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Installation



Min. mounting distance – terminal blocks to cable duct

Marking



Labeling via WMB Multi Marking System.

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$