

Terminal Blocks from WAGO Limited





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SPRING PRESSURE CONNECTION TECHNOLOGY FOR MAXIMUM SAFETY AND UPTIME

Safe, reliable electrical connections for power and signal transmission are taken for granted today – and with good reason. However, this did not happen overnight. During the 1950s, we departed from mainstream screw technology when we created our innovative approach: spring connections.

WAGO was the first company to apply spring pressure technology to connect electrical conductors, ushering in a decisive technological advance. WAGO continued development of this technology with the same measure of rigor and success.

Today the spring clamp has a myriad of variants. Why? To satisfy user demands for "smaller yet," "even easier to assemble" and "more cost effective" to the greatest degree possible. And best of all: Meet all of these needs at the same time! The four most essential principles from which this multitude of versions originates are briefly described below.

Proven in billions of applications worldwide!

CAGE CLAMP®



from 0.08-35mm²

Push-In CAGE CLAMP®



from 0.14-25mm²

POWER CAGE CLAMP®



from 10-185mm²

PUSH WIRE®



from 0.5-6mm²

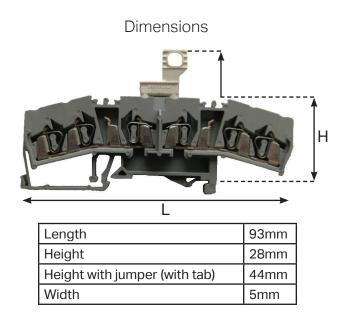


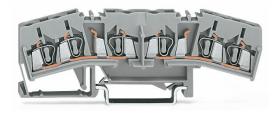
280 Series

WAGO Part No. 280-675

TS35 DIN rail-mounted terminal block with disconnect link facility.

800V/8kV/3 24A 0.08 - 2.5mm² Insulation stripping length 8 - 9mm





PADS No. 086/042121 WAGO Part No. 280-675

DIN Rail mounted terminal block, 0.08 - 2.5mm² with disconnect link facility, grey.



PADS No. 086/042124 WAGO Part No. 280-325, grey PADS No. 086/042125 WAGO Part No. 280-333, orange

End and intermediate plate, 5mm thick.



PADS No. 086/043050 WAGO Part No. 280-394, grey PADS No. 086/043051 WAGO Part No. 280-395, orange

Separator plate, 1mm thick.

280 Series



PADS No. 086/042122 WAGO Part No. 280-495

Disconnect jumper with tab, white.



PADS No. 086/042123 WAGO Part No. 280-498

Insulation stop for disconnect jumper point, red.



PADS No. 086/042134 WAGO Part No. 280-492

Disconnect jumper without tab, grey.

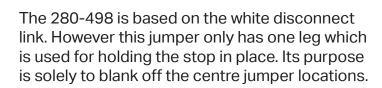


PADS No. 086/042127 WAGO Part No. 231-126/011-000

Test probe, grey



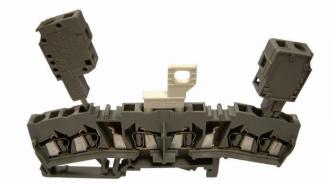
Red insulation stop (part No. 280-498) is available as an equivalent to the red dome nut and can be fitted into the jumper location once the disconnect link has been removed. Installation and removal of this part can be seen on the Operating Information page in Part 2.





The 231-126/011-000 is a test probe that can be inserted into the operating slot. It is pushed down the back of the clamp making contact with the busbar and clamp simultaneously.

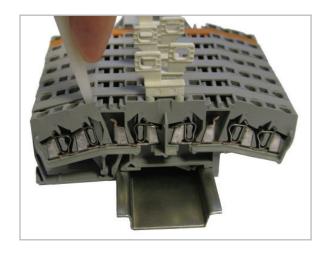




Operating instructions

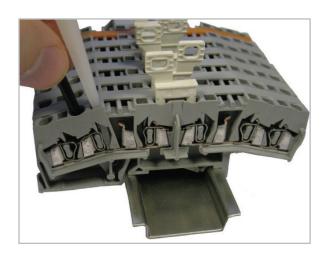
for the 280-675 terminal block & accessories

Part 1: Inserting wires into a CAGE CLAMP® Connection system



Step 1:

Strip the cable insulation 8 - 9mm using the stripping tool (206-124). Introduce the operating tool, initially at a slight angle into the square operating slot and push down until it will go no further. You cannot damage the spring as positive "stops" are built into the design of both the spring and terminal housing.



Step 2:

The operating tool blade will then remain in place, automatically holding the spring open. Introduce the prepared cable via the rounded cable entry hole.



Step 3:

The operating tool can then be withdrawn, which then releases the clamping spring on to the cable to provide a secure connection with exactly the right level of tension. To remove the wire repeat step 1, remove or replace the cable and then release the operating tool.

Operating tool part number 210-130 shown.

Operating instructions

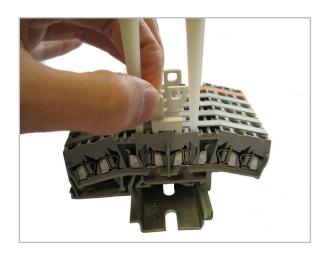
for the 280-675 terminal block & accessories

Part 2: Insertion of the disconnect jumper / link and insulation stop



Step 1:

Open the two central clamping springs by inserting $2 \times 210-130$ (3.5 x 0.5mm blade) operating tools into the operating slots (see picture).



Step 2:

Insert the required jumper fully into the open clamping springs. The contact legs are notched so once in place you should feel a click.



Step 3:

Remove both operating tools to close the clamps, leaving the jumper help in position. To remove repeat step one to take out the jumper or replace with a different version and the step 3.

Operating tool part number 210-130 shown.

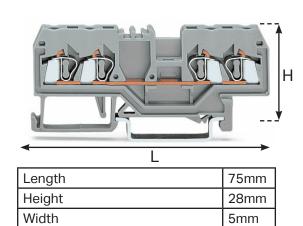
280 Series

WAGO Part No. 280-833

TS35 DIN rail-mounted terminal block

800V/8kV/3 24A 0.08 - 2.5mm² Insulation stripping length 8 - 9mm

Dimensions





PADS No. 086/042129 WAGO Part No. 280-833

DIN Rail mounted 4-conductor terminal block, 0.08 - 2.5mm², grey.



PADS No. 086/042132 WAGO Part No. 280-835/056-000, orange

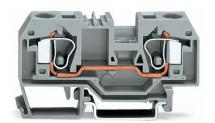
4-conductor end and intermediate plate, 5mm thick.



PADS No. 086/043061 WAGO Part No. 280-482, 2-way PADS No. 086/043062 WAGO Part No. 280-483, 3-way

Comb-style jumper bar, for use in conductor entry hole, insulated, 24A.

284 Series



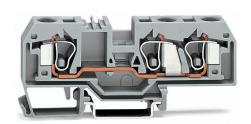
PADS No. 0088/201000 WAGO Part No. 284-901, grey

DIN Rail mounted 2-conductor carrier terminal block, 0.2 - 10mm², 10mm wide.



PADS No. 0088/201002 WAGO Part No. 284-325, grey PADS No. 0088/201001 WAGO Part No. 284-328, orange

Intermediate end plate for the 284-901, 2.5mm thick.



PADS No. 0088/201003 WAGO Part No. 284-681, grey

DIN Rail mounted 3-conductor carrier terminal block, 0.2 - 10mm², 10mm wide.



PADS No. 0088/201004 WAGO Part No. 284-308, grey PADS No. 0088/201005 WAGO Part No. 284-339, orange

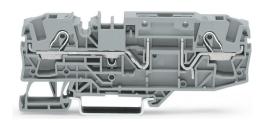
Intermediate end plate for the 284-681, 2.5mm thick.



PADS No. 0088/201006 WAGO Part No. 284-400

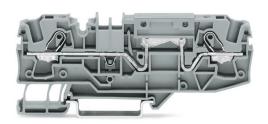
Finger guard, touch proof cover (yellow).

2006 Series



PADS No. 0088/201007 WAGO Part No. 2006-1661, grey

DIN Rail mounted 2-conductor carrier terminal block, 0.5 - 6 (10)mm², 7.5mm wide.



PADS No. 0088/201011 WAGO Part No. 2006-1601, grey

DIN Rail mounted 2-conductor through terminal block, 0.5 - 6 (10)mm², 7.5mm wide.



PADS No. 0088/201008 WAGO Part No. 2006-1695, grey PADS No. 0088/201009 WAGO Part No. 2006-1696, orange

Intermediate end plate for the 2006-1661 & 2006-1601, 2.9mm thick



PADS No. 0088/201054 WAGO Part No. 2006-1691, grey PADS No. 0088/201055 WAGO Part No. 2006-1692, orange

Intermediate end plate for the 2006-1661 & 2006-1601, 1mm thick



PADS No. 0088/201013 WAGO Part No. 2006-401/000-050

Disconnect link for 2006-1661, white.



PADS No. 0088/201014 WAGO Part No. 2006-451

Insulation stop for 2006-1661, red.

2006 Series



PADS No. 0088/201048 WAGO Part No. 60356200

2006 Series 2 to 1 conductor <u>disconnect</u> terminal block assembly, 2.5 - 10mm² (Grey)



PADS No. 0088/201049 WAGO Part No. 2006-402

2-way push-in type jumper



PADS No. 0088/201050 WAGO Part No. 2006-403

3-way push-in type jumper



PADS No. 0088/201051 WAGO Part No. 2006-404

4-way push-in type jumper



PADS No. 0088/201052 WAGO Part No. 2006-405

5-way push-in type jumper



PADS No. 0088/201053 WAGO Part No. 2006-191

Lockout cap (grey)



PADS No. 0088/201010 WAGO Part No. 2006-115

Protective warning marker, for 5 terminals

Accessories

Operating tools



DIN Rail and end stops



PADS No. 0088/201015 WAGO Part No. 210-721

Partially insulated, suitable for 2006 - 2016 Series

PADS No. 086/042169 WAGO Part No. 209-130

Fully insulated, suitable for 280 Series

PADS No. 086/042133 WAGO Part No. 210-658

Short angled, 3.5 x 0.5mm blade

PADS No. 086/043063 WAGO Part No. 280-432

Fully insulated comb, 2-way to use with comb-style jumpers

PADS No. 086/043064 WAGO Part No. 280-433

Fully insulated comb, 3-way to use with comb-style jumpers

WAGO Part No. 210-146

Aluminium DIN rail TS 35/15, 2m

PADS No. 088/201056 WAGO Part No. 249-116 PADS No. 086/042126 WAGO Part No. 249-117

End stop for TS 35 DIN rail 6mm (249-116) & 10mm wide (249-117), grey

Accessories



545611		I R I 7 I R I O I In
PADS No.	WAGO Part No.	Marking
0088/201016	793-502	1-10 (x10)
0088/201017	793-503	11-20 (x10)
0088/201018	793-504	21-30 (x10)
0088/201019	793-505	31-40 (x10)
0088/201020	793-506	41-50 (x10)
0088/201021	793-569	51-60 (x10)
0088/201022	793-570	61-70 (x10)
0088/201023	793-571	71-80 (x10)
0088/201024	793-572	81-90 (x10)
0088/201025	793-573	91-100 (x10)
0088/201026	793-566	1-50 (x2)
0088/201027	793-507	51-100 (x2)

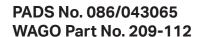


PADS No.	WAGO Part No.	Marking
0088/201028	793-602	1-10 (x10)
0088/201029	793-603	11-20 (x10)
0088/201030	793-604	21-30 (x10)
0088/201031	793-605	31-40 (x10)
0088/201032	793-606	41-50 (x10)
0088/201033	794-601	51-60 (x10)
0088/201034	794-602	61-70 (x10)
0088/201035	794-603	71-80 (x10)
0088/201036	794-604	81-90 (x10)
0088/201037	794-605	91-100 (x10)
0088/201038	793-666	1-50 (x2)
0088/201039	793-607	51-100 (x2)
086/043053	51292686	101-200 (x1)
086/043054	793-610	201-300 (x1)
086/043055	793-611	301-400 (x1)



PADS No. 086/043067 WAGO Part No. 209-113

Marker card for self marking, 100 markers per card



Group Marker Carrier

PADS No. 086/043066 WAGO Part No. 209-114

Protective cover transparent



PADS No.	WAGO Part No.	Marking
086/043056	51292681	10-50 (x2)
086/043057	51292682	60-100 (x2)
086/043058	51292683	110-200 (x1)
086/043059	51292684	210-300 (x1)
086/043060	51292685	310-400 (x1)

Accessories

Bunch strap tester, available in a 20 or 24-way combination

The WAGO bunch strap tester is specifically designed to be used with the WAGO CAGE CLAMP® terminals and can be used to Megger test up to 20 or 24 terminals at a time.

The tester is constructed from silicon insulated wire, each of the arms has a replaceable connector attached that can be placed into the square operating hole of the terminal, thus allowing testing without disturbing the cable.

The Megger connection is via a 4mm stackable banana plug. The unit is supplied complete as shown above with either 20 or 24 terminal leads, each unit has unique serial number and date of manufacture.

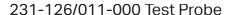


PADS No. 086/042135 WAGO Part No. 51002152, 20-way

PADS No. 086/042136 WAGO Part No. 51002165, 24-way

Other number of ways available upon request.







51002153 Test Plug



Serial number and date of manufacture

Certificate of Acceptance

PA05/00271

Manufacturer: Issue 6

WAGO Ltd Valid From: 18-11-2013

DIN Rail Mounted Terminal Blocks

Product Description

Terminal blocks for use as a replacement for 2BA terminal blocks. The terminals have inbuilt positive stops to prevent damage and do not have a limit to their number of operations. A range of accessories are also available.

Product Image



Scope of Acceptance

Full Acceptance:

Accepted for use as a replacement of the 2BA terminal blocks for terminating railway signalling cable conductors up to 2.5mm² cross sectional area. Use of the DIN Rail Mounted Terminal Blocks in signal heads is prohibited.

Network Rail Acceptance Panel (NRAP) hereby authorises the product above for use and trial use on railway infrastructure for which Network Rail is the Infrastructure Manager under the ROGS regulations.

Authorised by:

Richard Olutola Engineer (Asset Management and Railway Systems) Edward C Rollings MSc, CEng, MIET, FIRSE Professional Head – Signalling and Telecommunications



Certificate of Acceptance

PA05/06026

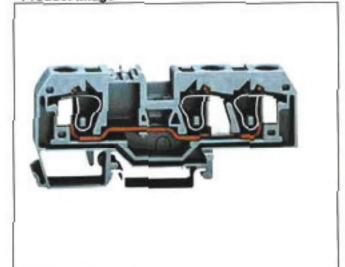
Manufacturer: WAGO Ltd Issue: 2

Valid From: 21/11/2017

Touch Proof Terminal Blocks

Product Description

A range of touch proof terminals that can accommodate conductors up to 10mm². The 2006 series terminal has a disconnect facility. Product Image



Scope of Acceptance

Full Acceptance:

Accepted for use for terminating railway signalling cable conductors from 2.5mm² up to 10mm² cross sectional area.

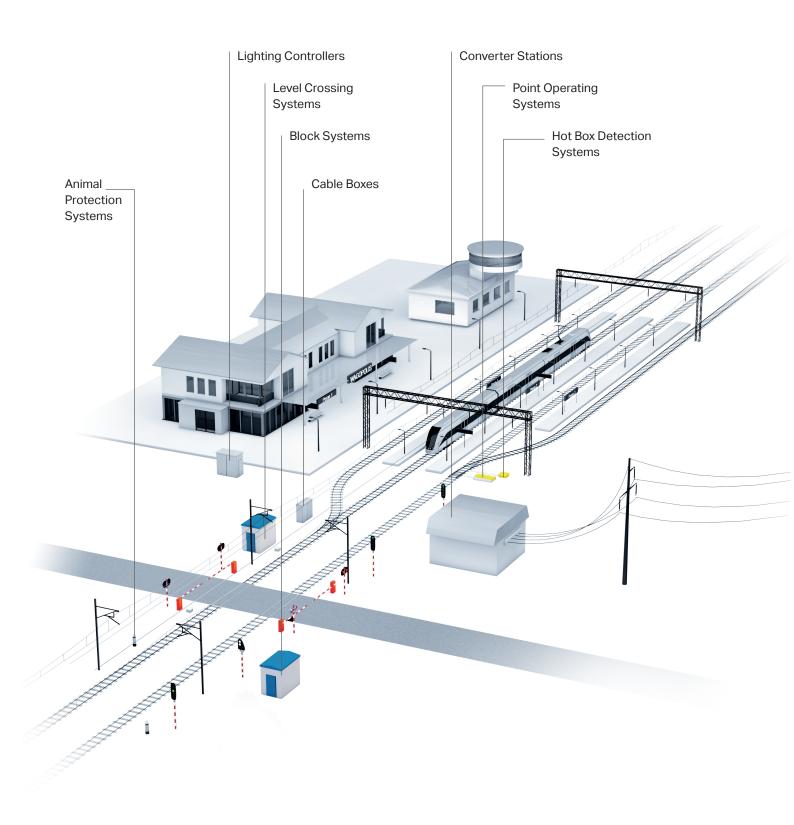
Network Rall Acceptance Panel (NRAP) hereby authorises the product above for use and trial use on railway infrastructure for which Network Rail is the Infrastructure Manager under the ROGS regulations.

Reviewed by:

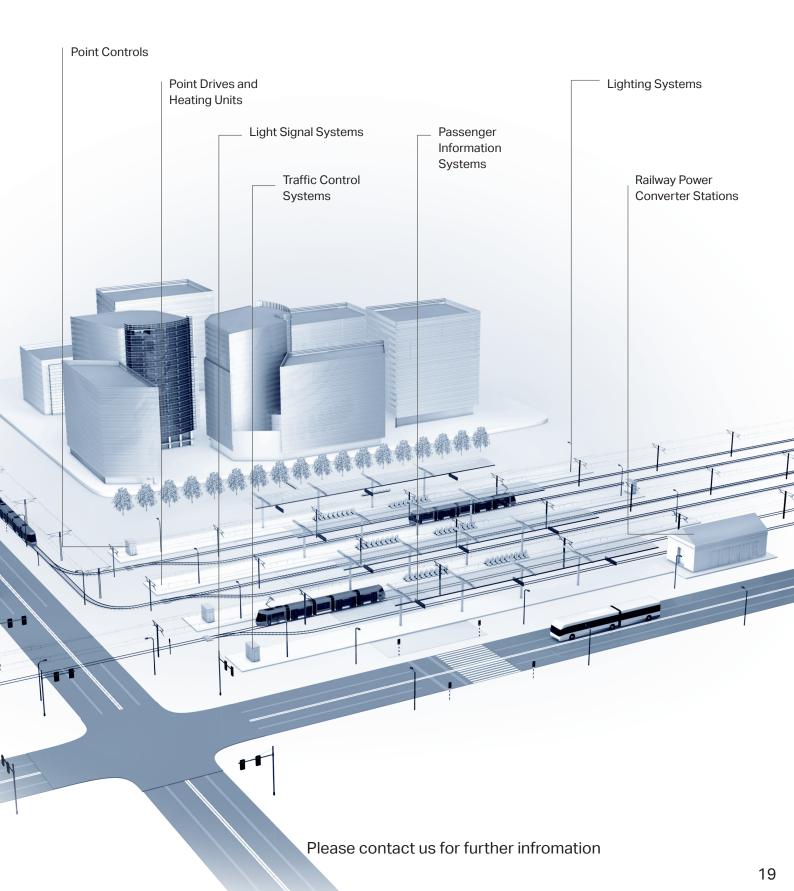
Authorised by:

Steve Rennolds Engineer (Asset Management and Railway Systems) Jerry Morling BEng MSc CEng MIET MIRSE Professional Head Signalling

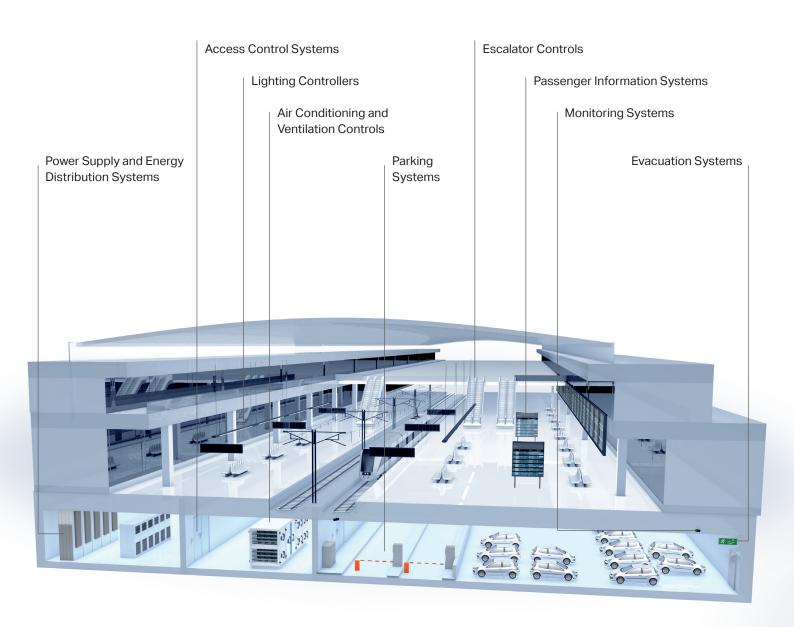
SIGNAL TECHNOLOGY APPLICATION AREAS



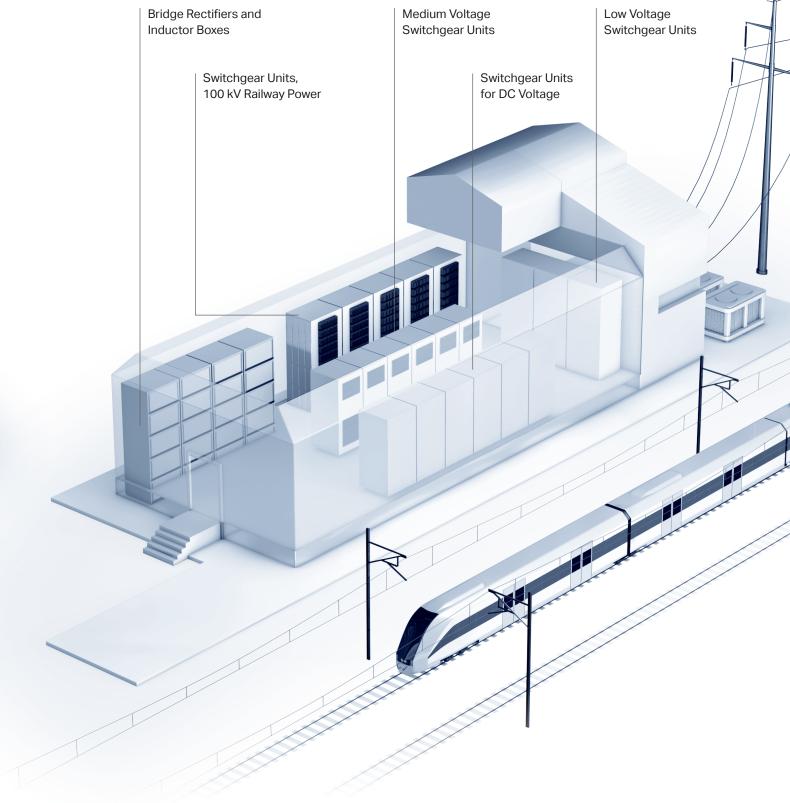
INFRASTRUCTURE APPLICATION AREAS



RAILWAY STATION APPLICATIONS



POWER SUPPLY APPLICATIONS



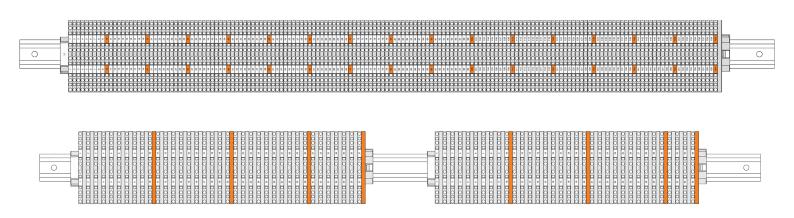
Please contact us for further infromation

WAGO Limited

Services

Custom rail assemblies are available, contact us for a quote.

- With or without a wiring harness
- Fitted within a suitable enclosure (free-issued or sourced by WAGO Limited)
- Or a kit of parts for the end user to assemble



Contacts

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Sales Enquires

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