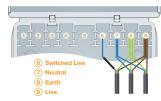
Wagobox XL: Installation Instructions

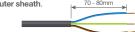
For BS En 60670-22 Accessory (See overleaf for Maintenance Free installation.)

1 The Wagobox-XL is simple to install just follow these steps:

Decide on the arrangement of connectors for the circuit to be installed using either the left or right side of the Wagobox-XL. In this example the right side is being used to connect a switch to a lighting circuit.



Prepare the cables by stripping back 70 - 80mm of the outer sheath.



3 Select the appropriate 2273 or 221 terminal blocks for the circuit.

Connect up the circuit:



5 If there are cross connections between the two sides of the Wagobox-XL these connections should be made before the connectors are slid into place. These consist of single core wires cut to length.



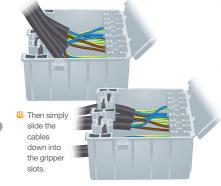
6 Next set up the cable grippers to suit the cable diameter. The grippers are designed to work with cable diameters between 3mm and 15.5mm. There are 6 gripper positions available, with each position altering the clamp diameter by +/- 2.5mm.



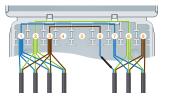
7 Note: It is possible to install cables of different sizes into the same gripper. Cut the gripper along the flat section into two or three parts depending on the different sizes being fitted. We suggest keeping similar cable sizes together in the same slot



9 Where cables are the same diameter, put the grippers into place first, then put the connectors in position leaving the cables projecting out of the enclosure.



Repeat installation process for left hand side of the Wagobox-XL. The example below illustrates how the Wagobox-XL can be used to connect a switching circuit (right side) to four light fittings (left side).



Once cable installation is complete, the Wagobox XL lid can be closed and secured using the cable-tie locking points.



13 If required the Wagobox can be fixed to a surface using the fixing button feature. Simply fix the button in the required position and slide the Wagobox into place using one or both of the fixing slots in the base.

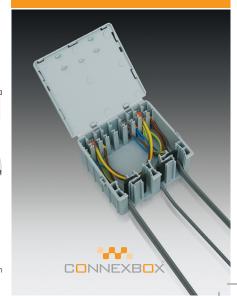




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Wagobox XL instructions for use

Quick, easy to fit, compact



Wagobox-XL: Terminals

The Wagobox-XL general purpose electrical enclosure is designed to be used with the Wago 221, 2273 and 2773 series connectors.



221 Compact Level Connector Conductor sizes:

0.2mm2 - 4mm2 Solid/Stranded Core 0.14mm² - 4mm² Fine Stranded Core Current rating: 32A

Voltage rating: 450V/4KV



2273

Conductor sizes: 0.5mm² - 2.5mm² Solid Core

Current rating: 24A Voltage rating: 450V/4KV



Conductor sizes: 0.5mm2 - 2.5mm2 Solid Core

Current rating: 24A

Voltage rating: 450V/4KV

Wagobox-XL: Overview

The Wagobox-XL is rated up to 450V and can support conductor sizes from 0.14mm² to 4mm²

The maximum permitted number of separately supplied individual circuits is 2.

The maximum number of individual conductor connections is 36, based on the installation of twelve 3-core cables of 1mm².

The maximum number of 4mm² connections is 24 based on installation of six 4-core cables.

The cable clamps can grip up to 12 cables with an overall diameter between 3mm and 15mm.

Wagobox-XL: Familiarisation

1 The internal lavout of the Wagobox-XL can be considered as two halves, a left and right side with a larger central connector receptacle between the two.



- 2 There are nine connector receptacles inside the Wagobox-XL. The centre receptacle (5) is designed to fit the 221 & 2273-208 terminal blocks. This terminal block can connect 8 wires together or a pair can be joined to provide a 14 way terminal block. It is expected that this terminal block position is used to connect earth wires when 8 or more cables on a single circuit are installed.
- 3 The left and right side of the Wagobox-XL have 2 slots for 2273 and 2773 terminal blocks (1) (3) (7) & (9) and 2 slots for **221** terminal blocks (2) (4) (6) & (8).

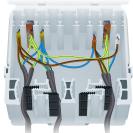
The Wagobox-XL is designed to support either one or two circuits that can be supplied together or separately. It is important to ensure that this is indicated on the lid using permanent marker or labels.



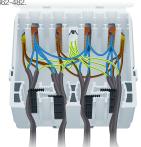
6 When two separate circuits are being supported connections between the left and right side are NOT permitted. Each side of the middle receptacle must be dedicated to one circuit only.



6 When a single circuit is being supported then cross linking between each side of the enclosure is permitted.



When a large number of cables need to be connected on a single circuit then the central receptacle can be used to connect the cable earth wires together using the 2273-208 pushwire connectors and jumper bar 862-482



Maintenance free Installation Instructions

Instructions for BS 5733-MF Accessory

In situations where you need to install a Wagobox-XL in an inaccessible location then the following instructions must be followed. This will ensure your completed accessory complies with the requirements of BS 5733 for a maintenance free accessory.

- 1 Only Wago 221, 2273 and 2773 connectors are permitted for use with a Wagobox-XL in maintenance free locations.
- 2 BS 5733 only permits single circuits to be terminated into a maintenance free accessory.
- Apply BS 5733 Rating Requirements. Please note the terminal ratings in the table below are different to those published by Wago. These terminal ratings must be used when selecting appropriate terminals to assemble a BS 5733 maintenance free accessory.

Terminal Models	Max. Terminal Current Rating	Max. Cable csa mm²	Single Side Max. Aggregate Current (l ₂₀)
2273-202 2273-203 2273-204 2273-205 2273-208	20A	2.5	50A
221-412 221-413 221-415	20A	4.0	50A
2773-202 2773-203 2773-204 2773-205 2773-206 2773-208	20A	4.0	50A

The Single Side Max Aggregate current (lag) is the sum of all the possible currents through either the left or right side of the Wagobox-XL in normal use. This limit must not be exceeded. Usually the max lag equals the number of phase terminals multiplied by the rating of the Overcurrent Protective Device for the circuit. There are some exceptions to this rule so if you are in anyway unsure how to calculate the maximum lag please consult a qualified electrician or contact Connexbox Ltd for support.

- 4 Follow the BS EN 60670-22 installation instructions ensuring all the phase terminals are neatly fitted into the receptacles in the Wagobox-XL.
- Secure the Wagobox-XL lid using the tie-wrap locking points.