



**BMAC**<sup>®</sup>  
A Grakon Company

Leaders in Road & Rail Lighting Solutions

Always on

## 420 Series Wireless Bell Push



Warranty



E approved



868 Mhz



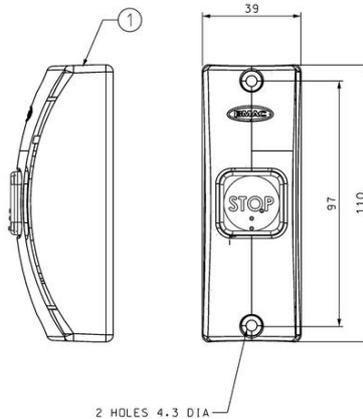
Voltage



Batteryless



Bus Stopping



wireless bell push

### Product Features:

- No cables, no batteries.
- No cables.
- Less additional weight.
- Eliminates long periods of the vehicle off the road tracing wiring faults.
- Innovative range of products designed to comply with European EMC directive.
- Button characters are in braille.
- 3 year warranty.
- Suitable for 30mm and 35mm hand rails.
- Single receiver to interface with vehicle electrical system.

+44(0)161 337 3070  
enquiries@bmac.ltd.uk



Units 13 & 14 Shepley Industrial Estate South | Shepley Road | Audenshaw | M34 5DW



## 420 Series Wireless Bell Push

### Concept

A wireless and battery-less Bell Push using radio transmission to communicate between a passenger Bell Push and the vehicle mounted receiver.

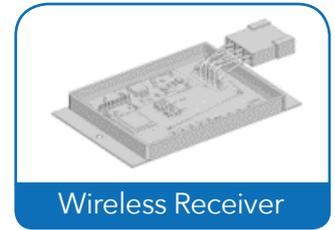
Conventionally this would have required running cables around the vehicle, connecting the passenger Bell Pushes to a central control unit. This would necessitate skilled, expensive labour to install the cables and the completed installation results in additional vehicle weight and as a consequence higher running costs.

To overcome these disadvantages, this innovative system uses a small radio transmitter mounted in each Bell Push and a single receiver to interface with the vehicle electrical system thus eliminating completely the need for cables.

### Functionality

When the Bell Push is pressed, this triggers the energy conversion device which generates a short pulse of electrical energy. This is sufficient for the radio transmitter to transmit a short telegram of information to the receiver. On installation in the vehicle, each Bell Push is assigned to a specific channel on the receiver.

When the receiver detects a Bell Push has been pressed, it outputs a signal to the vehicle's electrical system giving details of the operation of a button being pressed and its location on the vehicle. Each channel can be allocated to a specific zone on the vehicle, allowing the vehicle to be partitioned into separate areas. Typically, this would be upper deck, lower deck and wheelchair request.



Part No.	Housing	Orientation	Button Type
420HG	Grey	Horizontal	Red
420HG-02	Grey	Horizontal	Blue
420HY	Yellow	Horizontal	Red
420HY-02	Yellow	Horizontal	Blue
420VG	Grey	Vertical	Red
420VG-02	Grey	Vertical	Blue
420VY	Yellow	Vertical	Red
420VY-01	Yellow	Vertical	Green
420VY-02	Yellow	Vertical	Blue

Part No.	Description	Insert
422-01	Receiver Module - Vehicle Interface PCB	-
420/19G	Surface Mount Conversion Inserts (2 required per Bell Push)	Grey
420/19Y	Surface Mount Conversion Inserts (2 required per Bell Push)	Yellow
420VY-02	Yellow	Vertical

+44(0)161 337 3070  
enquiries@bmac.ltd.uk



Units 13 & 14 Shepley Industrial Estate South | Shepley Road | Audenshaw | M34 5DW