

## 433 MHz RF products

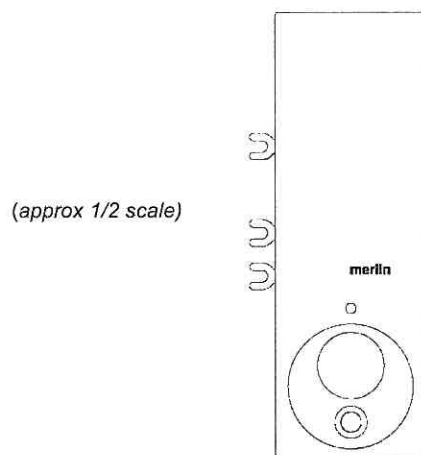
### M532A single-channel cased receiver

The M532A is a single channel, low voltage, signal contact relay output receiver. It is supplied in a hard plastic case for ease of attaching close to whatever it may be controlling. The case is designed for interior use only. Exterior buttons are built into the case for a manual pushbutton control and for ease of transmitter learning. An LED provides diagnostic feedback and confirms receiver status.

The wide input voltage range makes the receiver suitable for a variety of applications. It can be used to control simple alarm systems, most brands of garage door or gate opener or to drive other relays / contactors within the M532A specifications. An independent plug pack may be used if the controlled device does not supply the required power.

The M532A may be used to upgrade older garage door openers to the 433RF radio in order to get added security, compatibility with new accessories or to replace radio equipment that is no longer legal to sell. Included are spade connectors for ease of connecting directly to older Merlin openers.

A wire antenna is soldered directly to the receiver (*not shown in drawing*)



## Specifications

- Receiver type Super heterodyne, SAW filter on RF front end  
433.92 MHz, FM - FSK
- Approvals Australia NZ & UK
- Outputs 1; via signal relay contact (SPNO)
- Dimensions 45 x 135 x 23h
- Max switching load 1 Amp @ 30V ac/dc
- Input voltage 12 -24 Vac/ dc nominal  
9 -28V ac min / max  
9 - 40V dc min / max
- Power usage 30 - 50mA
- Momentary / toggle Select by bridging link. ( factory set on "mom" with link off)
- Learns up to 20 code hopping or unlimited fixed code devices that use the same code setting
- Compatible with M842,M844 mini remotes  
M832,M834,M832F, M834F,M832C & M834C standard remotes  
M840 wireless keypad  
M128 wireless wall control box
- Operating range Typically 50 - 100 meters  
(*range may vary subject to receiver location*)
- Merlin radio upgrade adapter harness  
BDR2 1111 (5 pin) model 1000 transmitter (1986 - 1987)  
BDR2 1112 (8 pin) model 2000-2200 transmitter (1988-1995) (1988—1990)  
BDR21112 (8 pin) model 2000,2200,2100 & M800 transmitters (1987 - 1996 ) approx

The M532A Add-On Receiver is used for on-off control of other devices from Merlin code-hopping or fixed code remote controls. These remotes generally have green buttons.

The receiver can learn up to twenty remote controls, either code-hopping or fixed code.

You must use multiple receivers to control multiple devices.

It accepts plug-on pre-wired looms for pre-95 Merlin openers, some gate openers and for general purposes.

The relay output can switch 1A at 30 V. It is not rated for switching mains voltages or heavier currents.

## Connecting it

If connecting to a Merlin door opener from 1995 onwards then connect it using the factory fitted spade terminals – they line up with the accessory terminals on the outside of the opener casing.

If you are not able to connect with these terminals then open the receiver's enclosure and remove and discard them.

If connecting to earlier model Merlin door openers or some gate openers then it will be easier to use a pre-wired plug-on adapter loom. See below for the correct loom.

If connecting to anything else then:

- Open the receiver enclosure
- Remove the factory fitted spade terminals and discard them
- Attach the manual control wires (that turn the controlled device on or off) from the controlled device to the NO and C relay output terminals on the receiver
- Attach a power supply to the input terminals of the receiver
- Replace the enclosure over the board
- Run the aerial wire out straight and horizontal for best performance
- Apply power to the receiver

## Using an optional pre-wired plug-on adapter loom

First remove and discard the factory fitted spade terminals.

For GDO boards that suit the Merlin 1000 red button remote: Use the red 5-way loom (Part No. BDR2 1111)

For GDO boards that suit the Merlin 2000 (white rectangular button), 2100 (red round button), 2200 (red rectangular button) remotes: Use the blue 8-way loom (Part No. BDR2 1112)

For gate openers: Use the multi-coloured 6-way loom (Part No. BDR2 1113)

## Teaching it a remote control

- Press the small learn button on the receiver for 1-2 seconds.
  - Press the desired remote button twice.
- After teaching twenty remotes the most recently learned remote will be over-written.

## Deleting all remotes from memory

- Press and hold the small learn button on the receiver for eleven seconds.

## Specifications:

Input voltage	12 – 24 V ac/dc nominal 9 – 40 V dc maximum 9 – 28 V ac maximum
Input current	30 mA standby 50 mA active (relay on)
Output contacts	Normally Open contacts 30 V 1 A maximum resistive load Not suitable for direct switching of inductive loads such as motors or fluorescent lighting
Output mode	Momentary standard; Toggling optional by setting a jumper on the circuit board
Radio frequency	433.92 MHz
Suits remotes	M832; M834, M842, M844, M832C, M834C, M832F, M834F, M128, M840
Memory	Learns 20 remotes; then overwrites last
Aerial type	20-cm wire is fitted (this should be horizontal and straight for best results)
Dimensions	45 w x 135 l x 22.5 h
Button colour	Green

