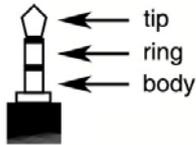


keene electronics IR Connections

IR Receivers



tip = data
ring = 5v
body = ground

Keene IR Receivers use a 3.5mm stereo jack plug. A mono plug must never be used as this will cause a short-circuit. The 3 core connection system has a 5V supply and the data as 5V Pk -Pk with carrier. The data is on the tip of the 3.5mm plug while the 5v is on the ring and common ground is on the body or barrel of the plug.

Some other manufacturers systems are fine with this format and just require different connections, some don't supply the 5V power and others require 12V data etc. Keene manufacture a conversion product [KRECA] (available separately) which will allow you to use Keene IR receivers with a number of different systems simply by changing some internal links.

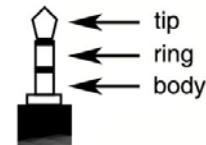
IR Emitters

Keene IR Emitters use a 3.5mm stereo jack plug.

For low power emitters the emitter anode is connected to the tip and the cathode to the body.

For high power emitters the anode is connected to the ring and the tip connection and the cathode to the body.

The output sockets are wired +ve output to the tip for low power outputs and +ve to the ring for high power outputs. With this wiring a low power emitter plugged into a high power output will not work but a high power emitter can be plugged into either output and still work.



tip = anode (Low power)
ring = anode (High power)
body = cathode

Useful product codes

| Code | Description |
|---------|--|
| IRUW | Universal IR emitter wand |
| IRLPW | Low power IR emitter wand |
| IRHPW | High power IR emitter wand |
| IRSFW | Side firing IR emitter wand |
| IRDW | A single jack drives two IR emitter wands that affix directly to the fascia and give a visible confirmation flash as the IR is emitted |
| IRSR | Standard receiver for most domestic equipment (40KHz) |
| IRWBR | Wideband IR receiver for equipment up to 100KHz |
| IRSP | Flush mounted single gang wall plate containing a standard IR receiver |
| IRSPW | Flush mounted single gang wall plate containing a wideband IR receiver |
| IRPMR | IR Panel Mount receiver (36-40KHz) black finish |
| IRPMRW | IR Panel Mount receiver (36-40KHz) white finish |
| KLDE6M | Couples a Powermid IR output directly to the IRCM wand input (3.5mm jack to 3.5mm jack) |
| KLDE10M | Couples other 2.5mm IR extender outputs directly to the IRCM input (2.5mm jack to 3.5mm jack) |
| KLD40 | 3 metre extension lead for input or output |
| KLD405 | 5 metre extension lead for input or output |
| KLD4010 | 10 metre extension lead for input or output |
| KA175 | A short (25cm) line adaptor with an RJ45 line socket to a 3.5mm stereo jack plug. Allows use of standard CAT5 network cables to extend the distance between the IR receivers and the Keene IRBKIT and IR Commander Matrix systems. Works up to 100m. |
| KA109 | IR input splitter 1 x 3.5mm jack to 2 x 3.5mm sockets for using both cabled feed (Powermid) and in-room IR receiver |
| KRECA | IR receiver adaptor allows Keene IR receivers to be used with other manufacturers IR distribution equipment |
| KIRA | IR Anywhere module that can be used as a remote network based IR source |
| KT9 | Mains power adaptor 220-240V to 7.5V 650mA DC |
| KT9W | Mains power adaptor 110-240V (worldwide interchangeable plugs) to 7.5V 650mA DC |