

# LEADING & TRAILING EDGE DIMMING EXPLAINED

\* Most dimmers in the UK are leading edge dimmers and some electronic lighting transformers are specifically designed for use with leading edge dimmers. Many electronic transformers are not however dimmable with leading edge dimmers and those that are, may buzz audibly. Most electronic transformers are dimmable with trailing edge dimmers and trailing edge dimming gives quieter operation.

RMT500 - Rako Controls has a transistor based trailing edge dimmer suitable for mains voltage tungsten/tungsten halogen lamps and low voltage tungsten halogen fed from electronic transformers. The RMT500 offers extremely quiet dimming with electronic transformers and can dim electronic transformers designed for trailing edge dimming\*.

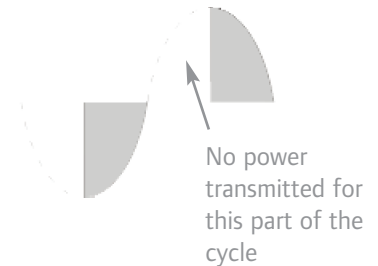
Being resistant to the short-circuits generated when GU10 type mains voltage halogen lamps fail, the RMT500 is the recommended dimmer for these lamps. The RMT500 is not suitable for inductive loads such as wire wound transformers (normally distinguished by their large size and heavy weight).

## DIFFERENCES BETWEEN LEADING & TRAILING EDGE DIMMING

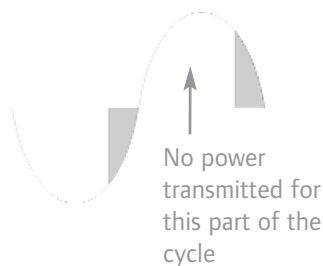
Normal mains - power is conducted for the whole cycle



A leading edge dimmer 'chops' the waveform and only transmits power for the second part of the cycle



Leading edge dimmer at low dimmed level



A trailing edge dimmer 'chops' the waveform and only transmits power for the first part of the cycle

