

## Save It Easy® and Induced (RF) Emissions

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### Scope

This Guidance Note applies to all Save It Easy® products.

### RF Emissions

In order to comply with the revised EU Directive on Electromagnetic emissions EN55015 it is important that the converted light fitting 'does not cause undue interfere with other equipment' and 'is not unduly interfered with by other equipment'.

The Save It Easy adaptors have been tested under laboratory conditions against a number of specified standards and these tests have also been performed on a number of converted light fittings. Both the stand-alone adaptor and the converted fittings pass the standards but, under certain conditions, it is possible for a converted light fitting to have induced (RF) interference which, in some frequency ranges, is higher than the values specified in the standard (please note – this applies specifically to induced interference – the radiated emissions never exceed the values specified in the standard).

Exceeding these values does not, by itself, imply that the converted fitting does not comply (the Directive does not require adherence to a standard, only that '[the converted fitting] does not unduly interfere with other equipment'), however the standard does provide a simple and universal benchmark – and the following steps should be followed in order to ensure compliance.

When installing Save It Easy® the following general guidance should be observed regarding the wiring arrangements within the luminaire:

1. Keep lamp wiring away from mains wiring (minimum 2.5 cm)
2. Keep wiring as short as possible.
3. Avoid loops in wiring.
4. In multi-lamp luminaires, do not bundle the wiring for one lamp together with that of another.

When converting quad fittings, because of the increased likelihood of interference between the various components, a filter should be fitted as standard.

For 6ft and 8ft adaptors (product codes INL-UHL-049-T5D and SET-230-070-T8A) the relatively high power can often generate high levels of RF interference, and we therefore recommend the use of a filter in these fittings.

On all other fittings, if you feel that the luminaire is particularly difficult (for instance the wiring is intertwined and the mains cannot be disentangled) or the guidelines above cannot be adhered to, then fitting a filter should be considered.