



1-10V – HFDD4

HFR - ANALOGUE DIMMING

Also known as High Frequency Regulating (HFR) – employs the use of a control voltage, either 0-10V DC or 1-10V DC. Both are similar, only the 0-10V will dim down to approx. 6% of light output and 1-10V will only dim to approx. 10% of light output. The method of control for this system is by means of either a rotary or slider potentiometer. Analogue (HFR) dimming ballasts can also be used with many available scene-set or mood-set controllers (Contactum, Mode, Lutron, Hamilton to name but a few). Figure 4 illustrates the required field wiring. Each luminaire requires a 3 core mains supply (L E N), and an additional 1-10V signal cable, normally a 2 core 0.75mm² flexible cable. This is looped around any luminaires to be dimmed together – please check with Ansell technical as there is a maximum number of ballasts which can be connected together, dependant on lamp type and wattage. *An additional unswitched live is required if the luminaire incorporates emergency control gear.*

