Integral Resistor

The option of integral resistor eliminates the need for a current limiting resistor and therefore simplifies the external drive circuitry. Indicator lamps incorporating a current limiting resistor are identified by a colour coded sleeve on the cathode terminal. The table below displays the standard supply voltage indicator lamps available with colour codes used to identify the supply voltage.

Supply voltage (Vdc)	Colour Code of Sleeve
5	Blue
12	Yellow
15	Green
24	Brown
28	Violet
110	Black/Black
240	Blue/Black

The integral resistor limits the supply current to approximately 12 mA -15 mA at the specified supply voltage as standard. Integral resistors for different supply voltages and currents are available, but may be limited by the space inside the indicator lamp body to dissipate the power generated. (Please contact us for further details).

The majority of our indicator lamps are fitted with integral blocking diodes electrically connected in series with the LED. The blocking diode prevents the LED from being damaged through inadvertent connection to a reverse polarity supply. In addition to providing protection from reverse polarity connection the diode also provides halfwave rectification, which allows the lamp to be operated from AC supplies, providing the supply frequency is above 50 Hz to eliminate flicker.