



STANDBY CHANGEOVER RELAY SCR-8

Due to its inherent starting characteristics, HID lighting needs time for the lamp to rise to its full power state. This is especially true if the lamp has been running and is then re-started, as it needs to cool itself down before it can re-ignite. This can take anywhere up to 15 minutes depending on the lamp type.

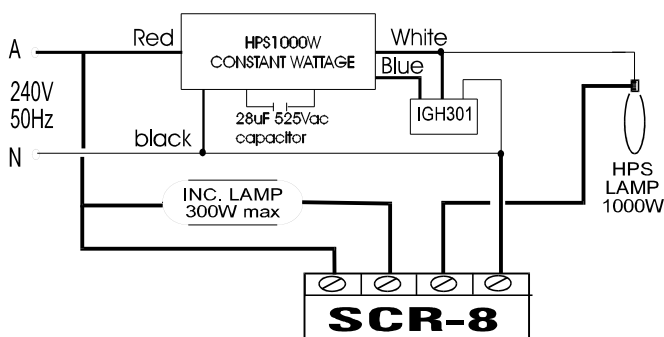
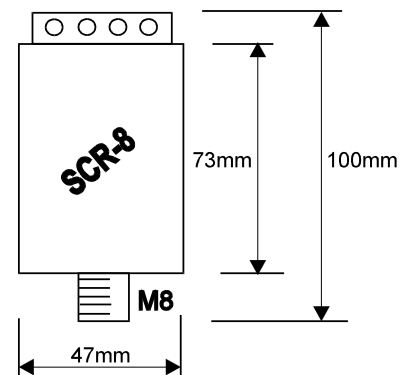
During these periods when the lamp is doing little or no useful work, it is often necessary that there be some auxiliary source of light available to prevent accident or injury to personnel or damage to equipment and products.

The SCR-8 is an electronic changeover relay developed to control an auxiliary light source (such as an incandescent lamp).

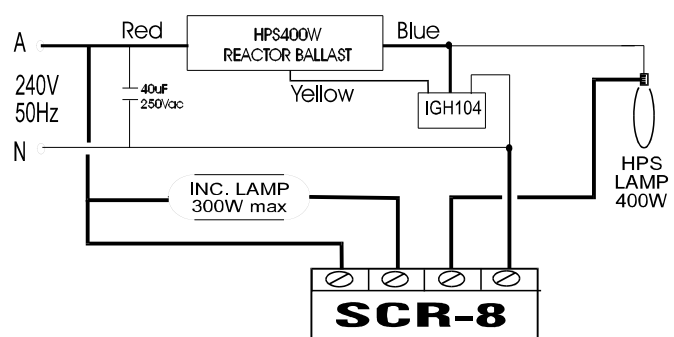
The SCR-8 electronically monitors the state of the HID lamp output power. When this is low, the SCR-8 will switch the incandescent lamp on and keep it on until the HID lamp reaches about 75% of its full output power. At this point the auxiliary lamp is automatically switched off and the HID lamp continues its ramp up to full power. If at any time the HID lamp turns off for any reason, the SCR-8 will sense the loss of output, immediately switch the auxiliary lamp (300W Max.) on and repeat the cycle described above.(provided power is available to the aux. lamp and SCR-8).

The SCR-8 is suitable for use with MH/HPS Reactor-Ignitor ballasts 150-400W, or Constant Wattage ballasts 175-1000W. (Control gear outside these ranges can be accommodated on request).

Superimposed, multi-pulse or impulse ignitors as well as Reactor or Constant Wattage, may be safely used in conjunction with the SCR-8. These features make it a very versatile and useful device.



EXAMPLE-1 Using Constant Wattage
Ballast Configuration



EXAMPLE-2 Using Reactor Ballast
Configuration

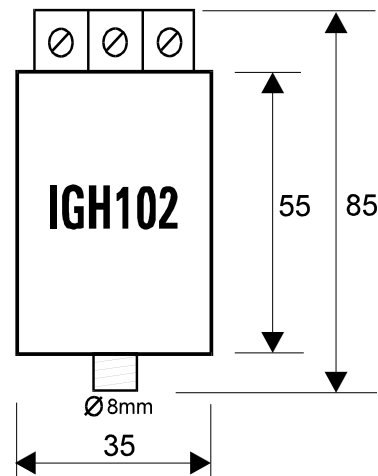
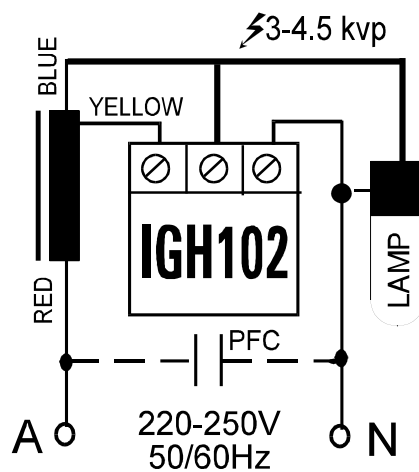


IGH102

The IGH102 ignitor is a superimposed pulse type ignitor for single or double ended metal halide lamps up to 150W with Macro Power tapped ballast. The maximum firing distance may vary due to the variation of the cable capacitance but is usually possible at distances of 2M. When the lamp starts the ignitor is automatically deactivated.

IGH102/T has an inbuilt, timed cut-out module of 120 sec. (standard).

Supply voltage at ballast input:	220-250 V, 50/60 Hz
Pulse voltage:	3000-4500 Vp
Pulse repetition rate:	2 – 4 per cycle (minimum)
Cut off voltage:	190 V
Maximum load capacitance:	250 pF
Losses during lamp operation:	negligible
Temperature rise:	negligible
Case temperature (maximum allowable):	90°C
Termination:	3 way terminal block
Mass:	160 g





IGH104

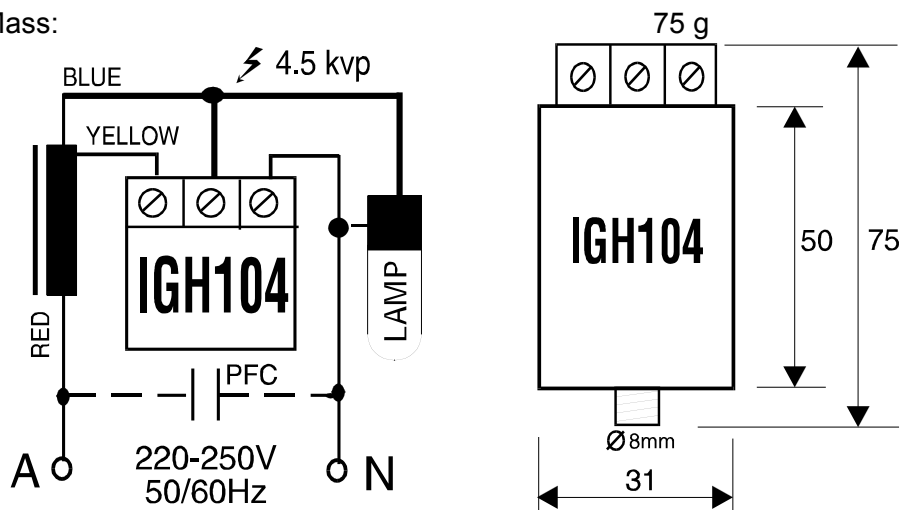
The IGH104 ignitor is a pulse type ignitor for single or double-ended metal halide/high pressure sodium lamps up to 1000W. The ignitor is to be used with suitable Macro Power tapped ballasts. The maximum firing distance may vary due to a variation in cable capacitance but it is usually possible to fire the lamp at distances up to and greater than 6M. When the lamp starts the ignitor is automatically deactivated.

IGH104/30 is the long distance version of this ignitor. Max. firing distance 30m.

IGH104/T has an inbuilt timed cut-out module of 120sec (standard).

Supply voltage at ballast input	220-250 V, 50/60 Hz
Pulse voltage:	2500 - 4500 Vp
Pulse repetition rate:	3-4 per cycle (minimum)
Cut off voltage:	190 V
Maximum load capacitance:	400 pF
Losses during lamp operation:	negligible
Temperature rise:	negligible
Case temperature (maximum allowable):	90°C
Termination:	3 way terminal block

Mass:



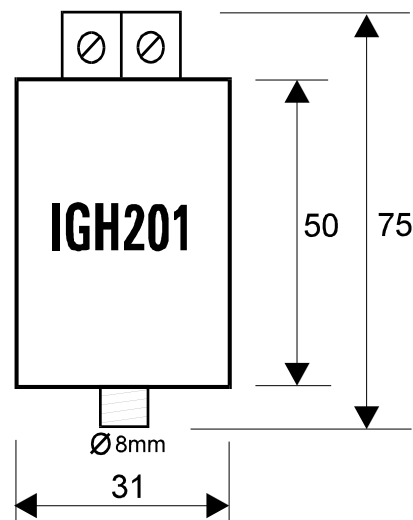
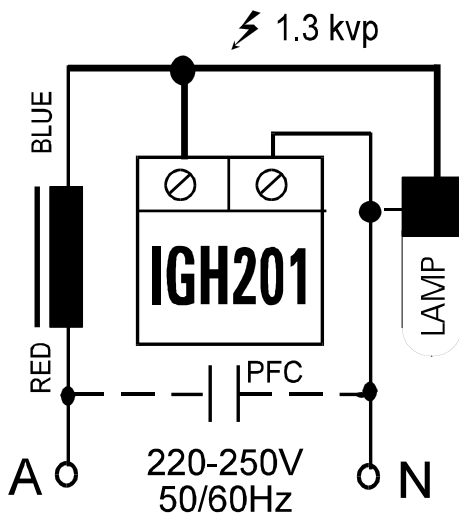


IGH201

The IGH201 ignitor is a pulse type ignitor for single ended metal halide lamps 250W to 2000W. The ignitor and reactor type control gear combination can be mounted remote from the lamp, the distance may vary due to the variation of the cable capacitance but it is greater than 60M usually. When the lamp starts the ignitor is automatically deactivated.

IGH201/T has an inbuilt timed cut-out module of 11minutes (standard).

Supply voltage at ballast input:	220-250 V, 50/60 Hz
Pulse voltage:	800 - 1300 V
Pulse repetition rate:	1 per cycle
Cut off voltage:	190 V
Maximum load capacitance:	10,000 pF
Losses during lamp operation:	negligible
Temperature rise:	negligible
Case temperature (maximum allowable):	90°C
Termination:	2 way terminal block
Mass:	52 g

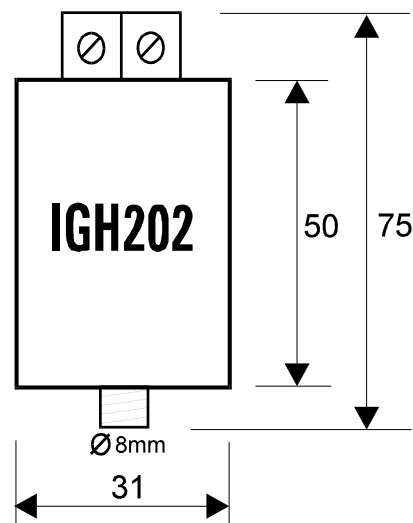
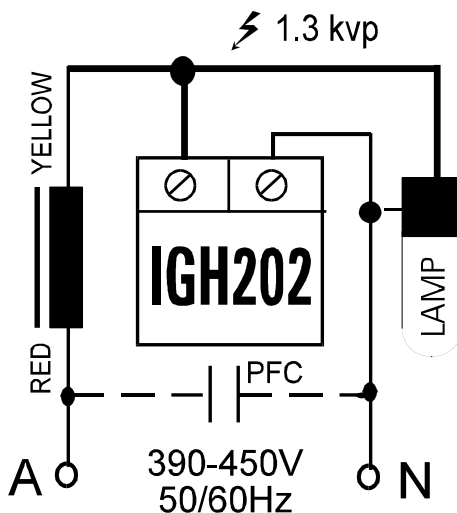




IGH202

The IGH202 ignitor is a pulse type ignitor for single ended metal halide lamps 250W to 2000W, operated from a 415V supply. The ignitor and reactor type control gear combination can be mounted remote from the lamp, the distance may vary due to the variation of the cable capacitance but it is greater than 60M usually. When the lamp starts the ignitor is automatically deactivated.

Supply voltage at ballast input:	390-450V, 50/60 Hz
Pulse voltage:	800 - 1300 V
Pulse repetition rate:	1 per cycle
Cut off voltage:	380V
Maximum load capacitance:	10,000 pF
Losses during lamp operation:	negligible
Temperature rise:	negligible
Case temperature (maximum allowable):	90°C
Termination:	2 way terminal block
Mass:	52 g

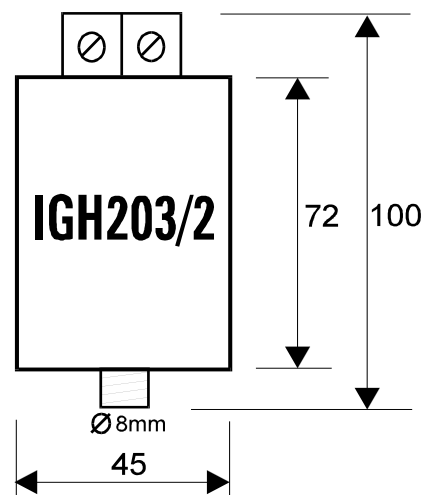
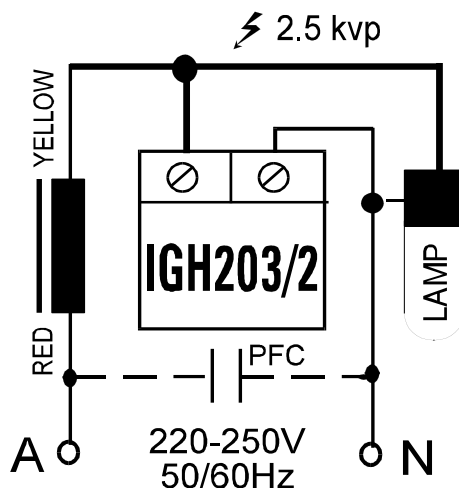




IGH203/2

The **IGH203/2** ignitor is a universal superimposed pulse type ignitor for single or double ended Metal Halide and HPS lamps with a 240V supply. The maximum firing distance may vary due to the variation of the cable capacitance but is usually possible at distances of 30M or greater. When the lamp starts the ignitor is automatically deactivated.

Supply voltage at ballast input:	220-250 V, 50/60 Hz
Pulse voltage:	4500 Vp
Pulse repetition rate:	2 per cycle (minimum)
Cut off voltage:	190 V
Maximum load capacitance:	250 pF
Losses during lamp operation:	negligible
Temperature rise:	negligible
Case temperature (maximum allowable):	90°C
Termination:	2 way terminal block
Mass:	250 g

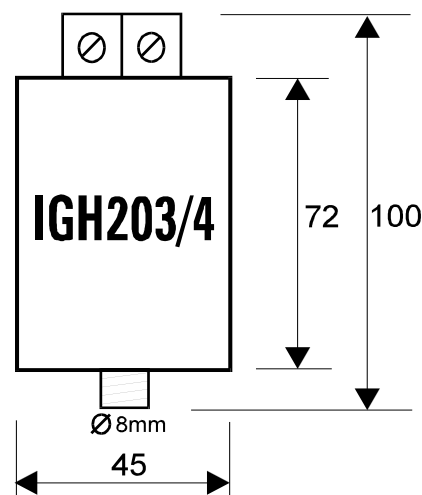
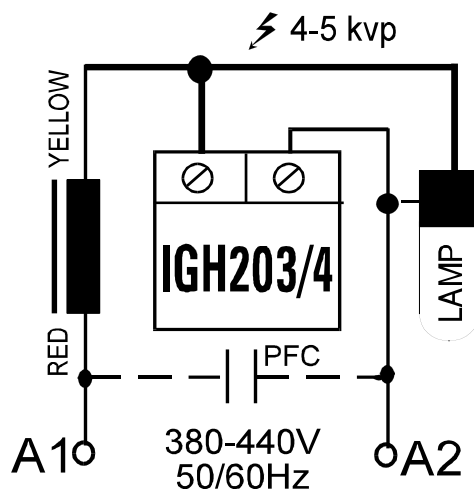




IGH203/4

The **IGH203/4** ignitor is a universal superimposed pulse type ignitor for single or double ended metal halide lamps up to 3500W with a 415V supply. The maximum firing distance may vary due to the variation of the cable capacitance but is usually possible at distances of 80M or greater. When the lamp starts the ignitor is automatically deactivated.

Supply voltage at ballast input:	380-440 V, 50/60 Hz
Pulse voltage:	4000-5000 Vp
Pulse repetition rate:	2 per cycle (minimum)
Cut off voltage:	350 V
Maximum load capacitance:	20 - 10000 pF
Losses during lamp operation:	1.15 watts
Temperature rise:	12°C
Case temperature (maximum allowable):	90°C
Termination:	2 way terminal block
Mass:	250 g



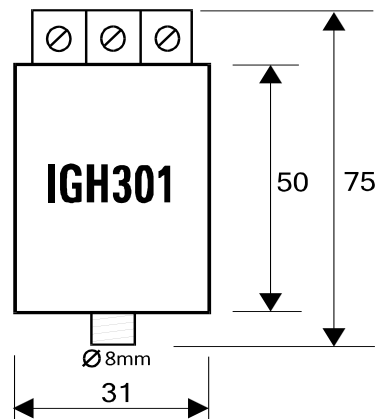
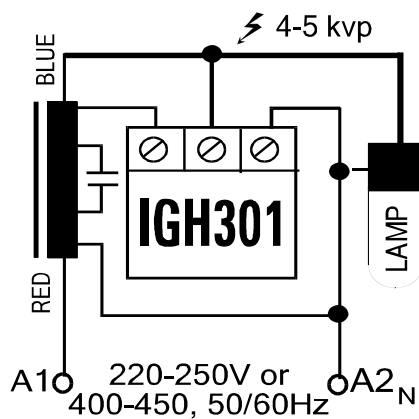


IGH301

The IGH301 ignitor is a pulse type ignitor for single or double-ended American high pressure sodium lamps 250W-1000W, operated from either a 240V or 415V supply. The ignitor is to be used with Macro Power HPS Constant Wattage ballasts only. The maximum firing distance may vary due to a variation in cable capacitance but it is usually possible to fire the lamp at distances up to and greater than 6m. When the lamp starts the ignitor is automatically deactivated.

IGH301/30 is the long distance version with a firing distance of 30m max.
IGH301/T has an inbuilt timed cut-out module of 120sec. (standard).

Supply voltage at ballast input:	220-250V/400-450V, 50/60 Hz
Pulse voltage:	4000 - 5000 Vp
Pulse repetition rate:	2 per cycle (minimum)
Cut off voltage:	190/380V
Maximum load capacitance:	3000 pF
Losses during lamp operation:	negligible
Temperature rise:	negligible
Case temperature (maximum allowable)	90°C
Termination:	3 way terminal block
Mass:	75 g





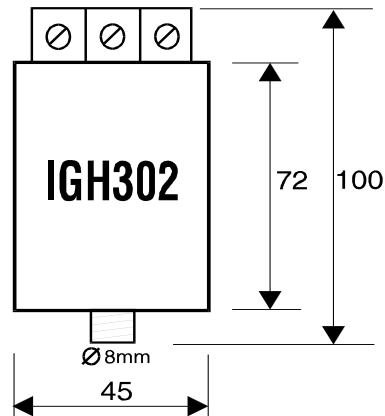
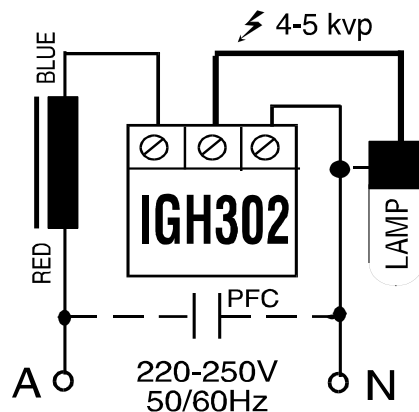
IGH302

The IGH302 ignitor is a superimposed pulse type ignitor for single or double ended metal halide/high pressure sodium lamps up to 400W. The maximum firing distance may vary due to the variation of the cable capacitance but is usually possible at distances of 2M or greater. When the lamp starts the ignitor is automatically deactivated.

IGH302/6 is the long distance version of this type ignitor. Max firing distance is 6m.

IGH302/T has an inbuilt timed cut-out module of 120sec for HPS and 11minutes for MH lamps.

Supply voltage at ballast input:	220-250 V, 50/60 Hz
Pulse voltage:	4000-5000 Vp
Pulse repetition rate:	4-6 per cycle (minimum)
Cut off voltage:	190 V
Maximum load capacitance:	250 pF
Losses during lamp operation:	negligible
Temperature rise:	negligible
Case temperature (maximum allowable):	90°C
Termination:	3 way terminal block
Mass:	250 g



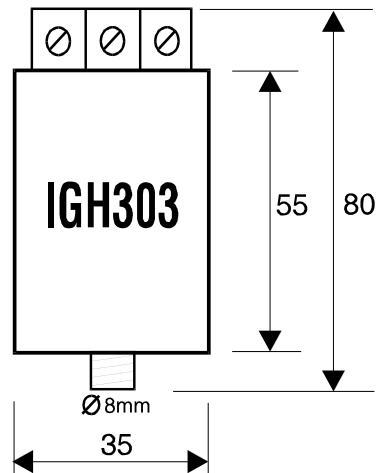
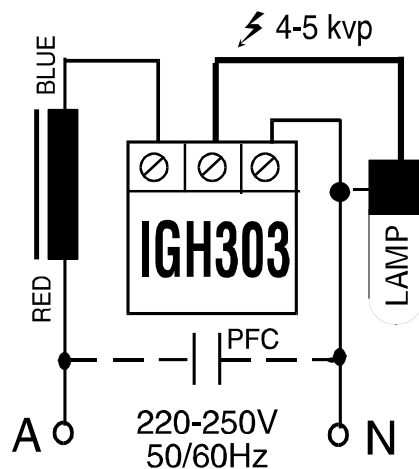


IGH303

The IGH303 ignitor is a superimposed pulse type ignitor for single or double ended metal halide/high pressure sodium lamps up to 150W. The maximum firing distance may vary due to variation in cable capacitance, but it is usually possible to fire the lamp at distances of 2M or greater. When the lamp starts the ignitor is automatically deactivated.

IGH303/T has an inbuilt timed cut-out module of 120sec for HPS and 11min for MH lamps.

Supply voltage at ballast input:	220-250 V, 50/60 Hz
Pulse voltage:	4000-5000 Vp
Pulse repetition rate:	4-6 per cycle (minimum)
Cut off voltage:	190 V
Maximum load capacitance:	200 pF
Losses during lamp operation:	negligible
Temperature rise:	negligible
Case temperature (maximum allowable):	90°C
Termination:	3 way terminal block
Mass:	90 g





IGH314

The IGH314 ignitor is a superimposed pulse type ignitor for single or double ended metal halide and high pressure sodium lamps up to 12 amps of maximum permissible lamp current. The maximum firing distance may vary due to the variation of the cable capacitance but is usually possible at distances of 2M or greater. When the lamp starts the ignitor is automatically deactivated.

IGH314/6 is the long distance version of this type ignitor. Max firing distance is 6m.

IGH314/T has an inbuilt timed cut-out module of 120sec for HPS and 11minutes for MH lamps.

Supply voltage at ballast input:	220-250 V, 50/60 Hz
Pulse voltage:	4000-5000 Vp
Pulse repetition rate:	4-6 per cycle (minimum)
Cut off voltage:	190 V
Maximum load capacitance:	20 - 200 pF
Losses during lamp operation:	negligible
Temperature rise:	negligible
Case temperature (maximum allowable):	90°C
Termination:	3 way terminal block
Mass:	250 g

