# **IGNITORS**

# STANDARD IGNITORS • INSTANT RESTRIKE IGNITORS • LONG DISTANCE IGNITORS • AUTOMATIC SHUTOFF IGNITORS • SHUTOFF DEVICES

Catalog Number	Description Re-	eference Drawing Nu
STANDARD IGNITO	RS	(See pg. 5-43
ULSE START METAL	HALIDE	
MH 70-3B <sup>13</sup>	For double-ended MH lamps with HX-HPF ballasts: 70 watt (M85), 100 watt (M91), and 150 watt (M81)	27
MH 100-3A	For MH lamps with HX-HPF ballasts: 35/39w(M130), 50w(M110), 70w(M98), 100w(M90/M140), and 150w(M102/M	142) 25
MH 150-1A	For 150 watt (M102/M142) lamp with CWA ballast	28
MH 200-1B <sup>13</sup>	For double-ended MH 250 watt (M80) lamp	28
MH 350-1A	For MH lamps with CWA ballasts: 175 waft (M152/M137), 200 watt (M136), 250 watt (M153/M138),	
	320 watt (M154/M132), 350 watt (M131), 400 watt (M155/M135), and 450 watt (M144)	24
P 750-1B <sup>13</sup>	For 750 watt (M149) MH lamp	28
HPS 1000-4B <sup>13</sup>	For MH lamps: 875 watt (M166) and 1000 watt (M141). It is also used for 1000W HPS lamps	28
IGH PRESSURE SOI	MUIC	
HPS 150-3A	For HPS lamps of 150 watt or less with HX-HPF ballast, except 150 watt S56 lamp	24
IPS 400-3A	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp with CWA ballasts	25
IPS 450-1B <sup>13</sup>	For 150 watt S56, 200, 250 or 400 watt lamps with 240 volt/60 Hz reactor ballasts. With attached mounting bracket.	28
IPS 460-1B <sup>13</sup>	For 200, 250 and 400 watt lamps with HX-HPF ballasts and 50 Hz reactor ballasts. With attached mounting bracket.	28
IPS 600-1B	For 600 watt lamps.	28
IPS 610-1B	For 600 watt lamps.	27
IPS 1000-4B <sup>13</sup>	For 1000 watt HPS and Pulse Start Metal Halide lamps. With attached mounting bracket.	27
IPS 1000-6B <sup>13</sup>	Obsolete	27
LUG REPLACEABLE	IGNITOR	
ULSE START METAI	HALIDE	
ИН 150-G15	For MH lamps with HX-HPF ballasts: 35/39 watt (M130), 50 watt (M110), 70 watt (M98), 100 watt (M90/M140), and 150 watt (M102/M142)	32
MH 350-G05	For MH lamps with CWA ballasts: 175 watt (M152/M137), 200 watt (M136), 250 watt (M153/M138),	32
·III 550 G05	320 watt (M154/M132), 350 watt (M131), 400 watt (M155/M135), and 450 watt (M144)	32
IGH PRESSURE SO	DIUM	
IPS 150-G01	For HPS lamps of 150 watt or less with HX-HPF ballast, except 150 watt S56 lamp	32
IPS 150-G01 IPS 400-G05	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp with CWA ballasts	32
		32
NSTANT RESTRIKE	GNITORS	
IIGH PRESSURE SOI	DIUM	
HPS 150-5B <sup>13</sup>	Instant Restrike Ignitor — for lamps of 150 watts or less except 150 watt S56. Ignitor has attached mounting bracket.	30
		30
LONG DISTANCE IGN	ITORS	
PULSE START META	L HALIDE	
MH 100-5A	For MH lamps from 35 to 50 watts. Max Ballast to Lamp Distance ( $\simeq 20$ ')	25
MH 100-5A	For MH lamps from 70 to 150 watts. Max Ballast to Lamp Distance ( $\simeq 30^{\circ}$ )	25
MH UNV-5B	For MH lamps from 35 to 450 watts. Ignitor incorporates automatic resetting thermal protection.	
	Max Ballast to Lamp Distance ( $\simeq 50$ ')	25
IGH PRESSURE SOI	DIUM	
HPS 150-4A	For HPS lamps of 150 watt or less, excerpt 150 watt S56 lamp. Max Ballast to Lamp Distance (~20')	
		24
	For HPS lamps from 200 to 400 watts and 150 watt \$56 lamp. Max Ballast to Lamp Distance (\$\times 20\)	24 25
HPS 400-4A	For HPS lamps from 200 to 400 watts and 150 watt \$56 lamp. Max Ballast to Lamp Distance (\$\sigmu\$25')	25
HPS 400-4A HPS 1000-5B	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp. Max Ballast to Lamp Distance ( $\simeq 25$ ') For 1000 watt HPS lamps. Ignitor incorporates automatic resetting thermal protection. Max Ballast to Lamp Distance (	25
HPS 400-4A HPS 1000-5B AUTOMATIC SHUTO	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp. Max Ballast to Lamp Distance (~25') For 1000 watt HPS lamps. Ignitor incorporates automatic resetting thermal protection. Max Ballast to Lamp Distance ( FF IGNITORS	25
HPS 400-4A HPS 1000-5B AUTOMATIC SHUTO	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp. Max Ballast to Lamp Distance (\$\sigma 25\sigma\$) For 1000 watt HPS lamps. Ignitor incorporates automatic resetting thermal protection. Max Ballast to Lamp Distance (\$\sigma F IGNITORS\$). HALIDE	25 ~ 50')25
HPS 400-4A HPS 1000-5B AUTOMATIC SHUTOI ULSE START METAL MH 100-35B <sup>13</sup>	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp. Max Ballast to Lamp Distance (~25') For 1000 watt HPS lamps. Ignitor incorporates automatic resetting thermal protection. Max Ballast to Lamp Distance ( FF IGNITORS  HALIDE For MH lamps: 35/39 watt (M130), 50 watt (M110), 70 watt (M98), 100 watt (M90/M140), and 150 watt (M102/M142).	25 ~ 50')25
HPS 400-4A HPS 1000-5B AUTOMATIC SHUTOI ULSE START METAL MH 100-35B <sup>13</sup>	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp. Max Ballast to Lamp Distance (~25') For 1000 watt HPS lamps. Ignitor incorporates automatic resetting thermal protection. Max Ballast to Lamp Distance (  FF IGNITORS  HALIDE  For MH lamps: 35/39 watt (M130), 50 watt (M110), 70 watt (M98), 100 watt (M90/M140), and 150 watt (M102/M142) With attached mounting bracket	25 ~ 50')25
HPS 400-4A HPS 1000-5B AUTOMATIC SHUTOI ULSE START METAL WH 100-35B <sup>13</sup> WH 150-35B <sup>13</sup>	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp. Max Ballast to Lamp Distance (~25') For 1000 watt HPS lamps. Ignitor incorporates automatic resetting thermal protection. Max Ballast to Lamp Distance (  FF IGNITORS  HALIDE  For MH lamps: 35/39 watt (M130), 50 watt (M110), 70 watt (M98), 100 watt (M90/M140), and 150 watt (M102/M142) With attached mounting bracket	25 ~ 50')25
IPS 400-4A IPS 1000-5B AUTOMATIC SHUTOI ULSE START METAL MH 100-35B <sup>13</sup> MH 150-35B <sup>13</sup>	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp. Max Ballast to Lamp Distance (~25') For 1000 watt HPS lamps. Ignitor incorporates automatic resetting thermal protection. Max Ballast to Lamp Distance (  FF IGNITORS  HALIDE  For MH lamps: 35/39 watt (M130), 50 watt (M110), 70 watt (M98), 100 watt (M90/M140), and 150 watt (M102/M142) With attached mounting bracket For 150 watt M81 lamp with CWA ballasts. With attached mounting bracket. For MH lamps: 175 watt (M152/M137), 200 watt (M130), 250 watt (M153/M138), 320 watt (M154/M132).	25 ~ 50')25 ). 28 31
IPS 400-4A IPS 1000-5B UTOMATIC SHUTO! JLSE START METAL IH 100-35B <sup>13</sup> IH 150-35B <sup>13</sup> IH 350-15B <sup>13</sup>	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp. Max Ballast to Lamp Distance (~25') For 1000 watt HPS lamps. Ignitor incorporates automatic resetting thermal protection. Max Ballast to Lamp Distance (  FF IGNITORS  HALIDE  For MH lamps: 35/39 watt (M130), 50 watt (M110), 70 watt (M98), 100 watt (M90/M140), and 150 watt (M102/M142 With attached mounting bracket For 150 watt M81 lamp with CWA ballasts. With attached mounting bracket. For MH lamps: 175 watt (M152/M137), 200 watt (M136), 250 watt (M153/M138), 320 watt (M154/M132), 350 watt (M131), 400 watt (M155/M135), and 450 watt (M144)	25 ~ 50')25 ). 28 31 31
IPS 400-4A IPS 1000-5B UTOMATIC SHUTOI JLSE START METAL IH 100-35B <sup>13</sup> IH 150-35B <sup>13</sup> IH 350-15B <sup>13</sup>	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp. Max Ballast to Lamp Distance (~25') For 1000 watt HPS lamps. Ignitor incorporates automatic resetting thermal protection. Max Ballast to Lamp Distance (  FF IGNITORS  HALIDE  For MH lamps: 35/39 watt (M130), 50 watt (M110), 70 watt (M98), 100 watt (M90/M140), and 150 watt (M102/M142 With attached mounting bracket For 150 watt M81 lamp with CWA ballasts. With attached mounting bracket. For MH lamps: 175 watt (M152/M137), 200 watt (M136), 250 watt (M153/M138), 320 watt (M154/M132), 350 watt (M131), 400 watt (M155/M135), and 450 watt (M144) For 750 watt (M149) MH lamp	25 ~ 50')25 ). 28 31
IPS 400-4A IPS 1000-5B UTOMATIC SHUTOI JLSE START METAL IH 100-35B <sup>13</sup> IH 150-35B <sup>13</sup> IH 350-15B <sup>13</sup> IPS 1000-55B <sup>13</sup>	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp. Max Ballast to Lamp Distance ( ~ 25') For 1000 watt HPS lamps. Ignitor incorporates automatic resetting thermal protection. Max Ballast to Lamp Distance ( FF IGNITORS   . HALIDE  For MH lamps: 35/39 watt (M130), 50 watt (M110), 70 watt (M98), 100 watt (M90/M140), and 150 watt (M102/M142 With attached mounting bracket For 150 watt M81 lamp with CWA ballasts. With attached mounting bracket. For MH lamps: 175 watt (M152/M137), 200 watt (M136), 250 watt (M153/M138), 320 watt (M154/M132), 350 watt (M131), 400 watt (M155/M135), and 450 watt (M144) For 750 watt (M149) MH lamp For MH lamps: 875 watt (M166) and 1000 watt (M141). It is also used for 1000W HPS lamps	25 ~ 50')25 ). 28 31 31 31
IPS 400-4A IPS 1000-5B  UTOMATIC SHUTOI ULSE START METAL (HT 100-35B <sup>13</sup> (HT 150-35B <sup>13</sup> (HT 350-15B <sup>13</sup> (PT 350-15B <sup>13</sup> IPS 1000-55B <sup>13</sup> (GH PRESSURE SOI	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp. Max Ballast to Lamp Distance ( ~ 25') For 1000 watt HPS lamps. Ignitor incorporates automatic resetting thermal protection. Max Ballast to Lamp Distance ( FF IGNITORS  HALIDE  For MH lamps: 35/39 watt (M130), 50 watt (M110), 70 watt (M98), 100 watt (M90/M140), and 150 watt (M102/M142 With attached mounting bracket For 150 watt M81 lamp with CWA ballasts. With attached mounting bracket. For MH lamps: 175 watt (M152/M137), 200 watt (M136), 250 watt (M153/M138), 320 watt (M154/M132), 350 watt (M131), 400 watt (M155/M135), and 450 watt (M144) For 750 watt (M149) MH lamp For MH lamps: 875 watt (M166) and 1000 watt (M141). It is also used for 1000W HPS lamps	25 ~ 50')25 ). 28 31 31 31 31
IPS 400-4A IPS 1000-5B  UTOMATIC SHUTOI ULSE START METAL IH 100-35B <sup>13</sup> IH 150-35B <sup>13</sup> IH 350-15B <sup>13</sup> IPS 1000-55B <sup>13</sup> IPS 1000-55B <sup>13</sup> IGH PRESSURE SOI	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp. Max Ballast to Lamp Distance (~25') For 1000 watt HPS lamps. Ignitor incorporates automatic resetting thermal protection. Max Ballast to Lamp Distance (  FF IGNITORS  HALIDE  For MH lamps: 35/39 watt (M130), 50 watt (M110), 70 watt (M98), 100 watt (M90/M140), and 150 watt (M102/M142 With attached mounting bracket For 150 watt M81 lamp with CWA ballasts. With attached mounting bracket. For MH lamps: 175 watt (M152/M137), 200 watt (M136), 250 watt (M153/M138), 320 watt (M154/M132), 350 watt (M131), 400 watt (M155/M135), and 450 watt (M144) For 750 watt (M149) MH lamp For MH lamps: 875 watt (M166) and 1000 watt (M141). It is also used for 1000W HPS lamps  DIUM  For lamps of 150 watts or less except 150 watt S56. With attached mounting bracket.	25 = 50')25 ). 28 31 31 31 31 28
IPS 400-4A IPS 1000-5B  UTOMATIC SHUTOI ULSE START METAL IH 100-35B <sup>13</sup> IH 150-35B <sup>13</sup> IH 350-15B <sup>13</sup> IPS 1000-55B <sup>13</sup> IPS 1000-55B <sup>13</sup> IGH PRESSURE SOI	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp. Max Ballast to Lamp Distance ( ~ 25') For 1000 watt HPS lamps. Ignitor incorporates automatic resetting thermal protection. Max Ballast to Lamp Distance ( FIGNITORS    HALIDE   For MH lamps: 35/39 watt (M130), 50 watt (M110), 70 watt (M98), 100 watt (M90/M140), and 150 watt (M102/M142 With attached mounting bracket For 150 watt M81 lamp with CWA ballasts. With attached mounting bracket. For MH lamps: 175 watt (M152/M137), 200 watt (M136), 250 watt (M153/M138), 320 watt (M154/M132), 350 watt (M131), 400 watt (M155/M135), and 450 watt (M144) For 750 watt (M149) MH lamp For MH lamps: 875 watt (M166) and 1000 watt (M141). It is also used for 1000W HPS lamps  DIUM   For lamps of 150 watts or less except 150 watt S56. With attached mounting bracket. For lamps from 200 to 400 watts and 150 watt S56 with constant wattage autotransformer ballasts.	25 ~ 50')25 ). 28 31 31 31 31
IPS 400-4A IPS 1000-5B  UTOMATIC SHUTOI ULSE START METAL IH 100-35B <sup>13</sup> IH 150-35B <sup>13</sup> IH 350-15B <sup>13</sup> IPS 1000-55B <sup>13</sup> IGH PRESSURE SOI IPS 150-45B <sup>13</sup> IPS 400-45B <sup>13</sup>	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp. Max Ballast to Lamp Distance ( ~ 25') For 1000 watt HPS lamps. Ignitor incorporates automatic resetting thermal protection. Max Ballast to Lamp Distance ( FF IGNITORS  HALIDE  For MH lamps: 35/39 watt (M130), 50 watt (M110), 70 watt (M98), 100 watt (M90/M140), and 150 watt (M102/M142 With attached mounting bracket For 150 watt M81 lamp with CWA ballasts. With attached mounting bracket. For MH lamps: 175 watt (M152/M137), 200 watt (M136), 250 watt (M153/M138), 320 watt (M154/M132), 350 watt (M131), 400 watt (M155/M135), and 450 watt (M144) For 750 watt (M149) MH lamp For MH lamps: 875 watt (M166) and 1000 watt (M141). It is also used for 1000W HPS lamps  DIUM  For lamps of 150 watts or less except 150 watt S56. With attached mounting bracket. For lamps from 200 to 400 watts and 150 watt S56 with constant wattage autotransformer ballasts. With attached mounting bracket.	25 250')25 ). 28 31 31 31 31 28 28
HPS 400-4A HPS 1000-5B AUTOMATIC SHUTOI ULSE START METAL WH 100-35B <sup>13</sup> WH 150-35B <sup>13</sup> WH 350-15B <sup>13</sup> HPS 1000-55B <sup>13</sup> HPS 1000-55B <sup>13</sup> HPS 400-45B <sup>13</sup> HPS 400-45B <sup>13</sup>	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp. Max Ballast to Lamp Distance ( ~ 25') For 1000 watt HPS lamps. Ignitor incorporates automatic resetting thermal protection. Max Ballast to Lamp Distance ( FIGNITORS  HALIDE  For MH lamps: 35/39 watt (M130), 50 watt (M110), 70 watt (M98), 100 watt (M90/M140), and 150 watt (M102/M142 With attached mounting bracket For 150 watt M81 lamp with CWA ballasts. With attached mounting bracket. For MH lamps: 175 watt (M152/M137), 200 watt (M136), 250 watt (M153/M138), 320 watt (M154/M132), 350 watt (M131), 400 watt (M155/M135), and 450 watt (M144) For 750 watt (M149) MH lamp For MH lamps: 875 watt (M166) and 1000 watt (M141). It is also used for 1000W HPS lamps  DIUM  For lamps of 150 watts or less except 150 watt S56. With attached mounting bracket. For lamps from 200 to 400 watts and 150 watt S56 with constant wattage autotransformer ballasts. With attached mounting bracket. For 1000 watt HPS and Pulse Start Metal Halide lamps. With attached mounting bracket.	25 250')25 ). 28 31 31 31 31 28
IPS 400-4A IPS 1000-5B  AUTOMATIC SHUTOI ULSE START METAL AH 100-35B <sup>13</sup> AH 150-35B <sup>13</sup> AH 350-15B <sup>13</sup> IPS 1000-55B <sup>13</sup> IPS 150-45B <sup>13</sup> IPS 400-45B <sup>13</sup> IPS 400-45B <sup>13</sup> IPS 1000-55B <sup>13</sup>	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp. Max Ballast to Lamp Distance (~ 25') For 1000 watt HPS lamps. Ignitor incorporates automatic resetting thermal protection. Max Ballast to Lamp Distance (  FF IGNITORS  HALIDE  For MH lamps: 35/39 watt (M130), 50 watt (M110), 70 watt (M98), 100 watt (M90/M140), and 150 watt (M102/M142 With attached mounting bracket For 150 watt M81 lamp with CWA ballasts. With attached mounting bracket. For MH lamps: 175 watt (M152/M137), 200 watt (M136), 250 watt (M153/M138), 320 watt (M154/M132), 350 watt (M131), 400 watt (M155/M135), and 450 watt (M144) For 750 watt (M149) MH lamp For MH lamps: 875 watt (M166) and 1000 watt (M141). It is also used for 1000W HPS lamps  DIUM  For lamps of 150 watts or less except 150 watt S56. With attached mounting bracket. For lamps from 200 to 400 watts and 150 watt S56 with constant wattage autotransformer ballasts. With attached mounting bracket. For 1000 watt HPS and Pulse Start Metal Halide lamps. With attached mounting bracket.	25 250')25 ). 28 31 31 31 31 28 28
IPS 400-4A IPS 1000-5B  LUTOMATIC SHUTOI ULSE START METAL AH 100-35B <sup>13</sup> AH 150-35B <sup>13</sup> AH 350-15B <sup>13</sup> IPS 1000-55B <sup>13</sup> IPS 1000-55B <sup>13</sup> IPS 400-45B <sup>13</sup> IPS 1000-55B <sup>13</sup> IPS 10	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp. Max Ballast to Lamp Distance (~25') For 1000 watt HPS lamps. Ignitor incorporates automatic resetting thermal protection. Max Ballast to Lamp Distance (  FIGNITORS  HALIDE  For MH lamps: 35/39 watt (M130), 50 watt (M110), 70 watt (M98), 100 watt (M90/M140), and 150 watt (M102/M142 With attached mounting bracket For 150 watt M81 lamp with CWA ballasts. With attached mounting bracket. For MH lamps: 175 watt (M152/M137), 200 watt (M136), 250 watt (M153/M138), 320 watt (M154/M132), 350 watt (M131), 400 watt (M155/M135), and 450 watt (M144) For 750 watt (M149) MH lamp For MH lamps: 875 watt (M166) and 1000 watt (M141). It is also used for 1000W HPS lamps  DIUM  For lamps of 150 watts or less except 150 watt S56. With attached mounting bracket. For lamps from 200 to 400 watts and 150 watt S56 with constant wattage autotransformer ballasts. With attached mounting bracket. For 1000 watt HPS and Pulse Start Metal Halide lamps. With attached mounting bracket.  FF DEVICES  shutoff ignitors, automatic shutoff devices are available as separate components for use with the ignitors below.	25 250')25 ). 28 31 31 31 31 31 31
IPS 400-4A IPS 1000-5B  AUTOMATIC SHUTOI ULSE START METAL AH 100-35B <sup>13</sup> AH 150-35B <sup>13</sup> AH 350-15B <sup>13</sup> IPS 1000-55B <sup>13</sup> IPS 150-45B <sup>13</sup> IPS 400-45B <sup>13</sup> IPS 400-45B <sup>13</sup> IPS 1000-55B <sup>13</sup>	For HPS lamps from 200 to 400 watts and 150 watt S56 lamp. Max Ballast to Lamp Distance (~ 25') For 1000 watt HPS lamps. Ignitor incorporates automatic resetting thermal protection. Max Ballast to Lamp Distance (  FF IGNITORS  HALIDE  For MH lamps: 35/39 watt (M130), 50 watt (M110), 70 watt (M98), 100 watt (M90/M140), and 150 watt (M102/M142 With attached mounting bracket For 150 watt M81 lamp with CWA ballasts. With attached mounting bracket. For MH lamps: 175 watt (M152/M137), 200 watt (M136), 250 watt (M153/M138), 320 watt (M154/M132), 350 watt (M131), 400 watt (M155/M135), and 450 watt (M144) For 750 watt (M149) MH lamp For MH lamps: 875 watt (M166) and 1000 watt (M141). It is also used for 1000W HPS lamps  DIUM  For lamps of 150 watts or less except 150 watt S56. With attached mounting bracket. For lamps from 200 to 400 watts and 150 watt S56 with constant wattage autotransformer ballasts. With attached mounting bracket. For 1000 watt HPS and Pulse Start Metal Halide lamps. With attached mounting bracket.	25 250')25 ). 28 31 31 31 31 28 28

Lamp Watts	ANSI Code	Circuit Type	Standard Ignitors	Auto Shutoff	Instant Restrike	Long Distance Ignitors		
HIGH PRESSURE SODIUM IGNITORS								
35	S76	Reactor	HPS 150-3A	HPS 150-45B	HPS 150-5B	HPS 150-4A		
50	S68	Reactor, HX	HPS 150-3A	HPS 150-45B	HPS 150-5B	HPS 150-4A		
70	S62	Reactor, HX	HPS 150-3A	HPS 150-45B	HPS 150-5B	HPS 150-4A		
100	S54	Reactor, HX	HPS 150-3A	HPS 150-45B	HPS 150-5B	HPS 150-4A		
150	S55	Reactor, HX	HPS 150-3A	HPS 150-45B	HPS 150-5B	HPS 150-4A		
150	S56	CWA	HPS 400-3A	HPS 400-45B	_	HPS 400-4A		
250	S50	Reactor	HPS 450-1B	HPS 400-45B	_	HPS 400-4A		
250	S50	CWA	HPS 400-3A	HPS 400-45B	_	HPS 400-4A		
250	S50	HX	HPS 460-1B	HPS 400-45B	_	HPS 400-4A		
400	S51	Reactor	HPS 450-1B	HPS 400-45B	_	HPS 400-4A		
400	S51	CWA	HPS 400-3A	HPS 400-45B	_	HPS 400-4A		
400	S51	HX	HPS 460-1B	HPS 400-45B	_	HPS 400-4A		
600	S106	CWA	HPS 600-1B	_	_	_		
600	S106	Reactor	HPS 610-1B	_	_	_		
1000	S52	CWA	HPS 1000-4B	HPS 1000-55B	_	_		

METAL HALIDE IGNITORS           35         M130         Reactor         MH 100-3A         —         MH 100-3A           50         M110         HX         MH 100-3A         —         MH 100-3B           70         M85         HX         MH 70-3B         MH 70-35B         MH 100-35B         MH 100-35B <th>0-5A</th>	0-5A
50         M110         HX         MH 100-3A         —         MH 10           70         M85         HX         MH 70-3B         MH 70-35B         MH 10           70         M98         HX         MH 100-3A         MH 100-35B         MH 10           100         M90         Reactor         MH 100-3A         MH 100-35B         MH 10	0-5A
70         M85         HX         MH 70-3B         MH 70-35B         MH 100           70         M98         HX         MH 100-3A         MH 100-35B         MH 100           100         M90         Reactor         MH 100-3A         MH 100-35B         MH 100	
70 M98 HX MH 100-3A MH 100-35B MH 100 100 M90 Reactor MH 100-3A MH 100-35B MH 100	0-5A
100 M90 Reactor MH 100-3A MH 100-35B MH 100	0-5A
	0-5A
100 M90 CWA MH 100-3A MH 100-35B MH 10	0-5A
	0-5A
100 M91 HX MH 70-3B — —	
150 M81 HX MH 70-3B — —	
150 M81 CWA MH 150-35B MH 150-35B —	
150 M102 HX MH 100-3A MH 100-35B MH 10	0-5A
350 M131 Reactor MH 70-3B — —	
350 M131 HX MH 70-3B — —	

## **STANDARD IGNITORS**

Standard Ignitors are supplied with all Universal High Pressure Sodium and Metal Halide ballasts requiring ignitors. These ballasts are supplied with an appropriate external ignitor unless the ignitor is permanently attached to or built into the ballast.

### **INSTANT RESTRIKE IGNITORS**

An Instant Restrike Ignitor generates multiple pulses to restrike a lamp arc after a brief power interruption has extinguished it, without the typical 3-minute cool-down time. A Standard Ignitor cannot restrike an arc until the lamp has had time to sufficiently cool. Even though an Instant Restrike Ignitor can reinitiate the lamp arc immediately upon restoration of power, the lamp is still subject to warmup. The following chart is based on an S55 lamp.

Time Lamp Is Extinguished	Restrike Time	Light Output On Reignition	Lamp Warmup Time
1 second	2 seconds	87%	35 seconds
5 seconds	Instant	83%	70 seconds
15 seconds	Instant	76%	130 seconds
30 seconds	Instant	62%	190 seconds
1 minute	Instant	46%	255 seconds
Cold Start	Instant	36%	360 seconds

#### PLUG REPLACEABLE IGNITORS

Incorporates terminals and a separate mounting base to simplify construction and replacement.

## **LONG DISTANCE IGNITORS**

Long Distance Ignitors are used in situations where a ignitor must be mounted further from the lamp than is recommended for a standard ignitor. The maximum lamp to ignitor distance for these ignitors is 50 feet, which may vary depending on the type of lamp, ballast, fixture, and wiring.

### **AUTOMATIC SHUTOFF IGNITORS**

In the event of a lamp failure, a Standard Ignitor will continue to pulse, trying to start the lamp. This may reduce the life of the ignitor. An Automatic Shutoff Ignitor will apply pulses for 10 to 12 minutes and then deactivate if a lamp arc cannot be initiated. Resetting the ignitor is accomplished by momentarily interrupting the power to the ballast. For this reason, these ignitors are not recommended for use on unswitched circuits.

#### **SHUTOFF DEVICES**

Ignitor Accessory (IA) devices can be used to convert a Standard Ignitor into an Automatic Shutoff Ignitor. Simply match the Shutoff Device catalog number on page 5-62 with the Standard Ignitor that is supplied with the ballast. Using the IA device with the Standard Ignitor eliminates the need to buy a separate Automatic Shutoff Ignitor.

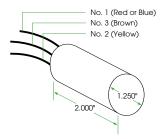
#### **TEMPERATURE RATING**

Most ignitors are rated for a 105°C maximum case temperature. Consult ballast specification sheets at www.unvlt.com for specific details.

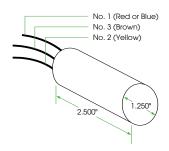
# **REFERENCE DRAWINGS**

All dimensions in decimals. All lead lengths: 13 inches ±1

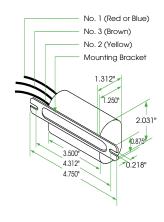
Ref. Drawing 24



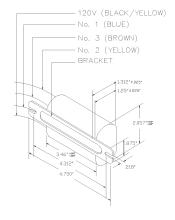
Ref. Drawing 25



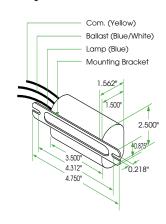
Ref. Drawing 27



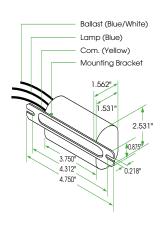
Ref. Drawing 28



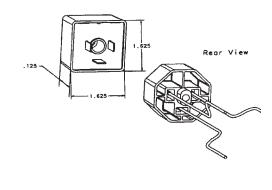
Ref. Drawing 30



Ref. Drawing 31



Ref. Drawing 32



Ref. Drawing 33

