

Electronic Superimposed Pulse Ignitors

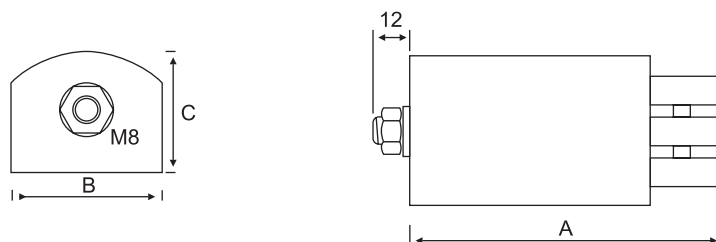
Without timer 220-240V 50-60Hz

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- Fully electronic
- Super-imposed pulse type
- Compact design
- Solid metal fixing screw
- Low inherent heating
- High thermal resistance
- Low power losses
- ENEC approved



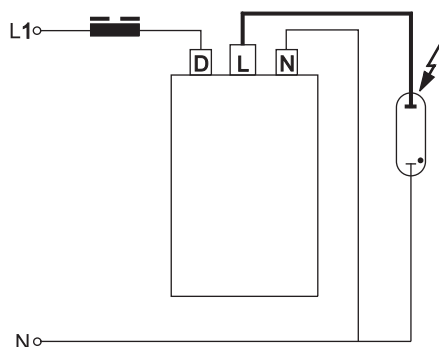
Dimensions



	L-70	L-150	HI-400S	L-1000
Lamp: High pressure sodium (W)	35-70	100-150	100-400	400-1000
Metal halide (W)	-	35-150	70-400	400-1000
Ceramic metal halide (W)	-	35-150	250-400	-
Max. contin. lamp current (A)	1	1.8	4.6	12
Operating voltage (V)	198-264	198-264	198-264	198-264
Cut-out voltage (V)	≤ 170	≤ 170	≤ 170	≤ 170
Ignition voltage (kV)	1.9 ... 2.3	4.0 ... 4.5	4.0 ... 4.5	4.0 ... 4.5
Impulse width (μs)	2 (1.5 kV)	1.4 (2.0 kV)	1.0 (2.0 kV)	1.7 (2.5 kV)
Phasing (°el)	60-90 / 240-270	60-90 / 240-270	60-90 / 240-270	60-90 / 240-270
Pulses per half cycle	2	3	3	3
Max. load capacitance (pF)	200	100	100	100
Internal losses (W)	< 1.0 (25°C; 1A)	< 1.0 (25°C; 1.8A)	< 3.3 (25°C; 4.6A)	< 6.0 (25°C; 12A)
Max. housing temperature (°C)	105	105	105	105
Min. ambient temperature (°C)	-30	-30	-30	-30
Weight (g)	105	128	150	450
Dimensions AxBxC (mm)	88x34x28	88x34x28	92x39x33	108x55x43

Connection diagrams

Terminals: 3-pole D-L-N 2.5 mm² max



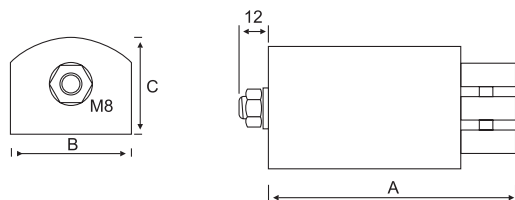
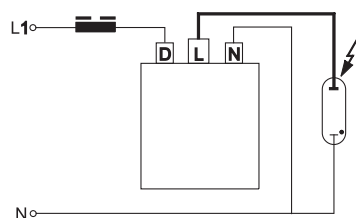
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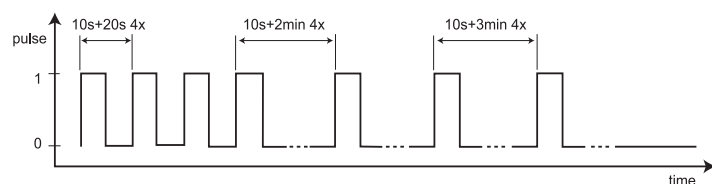


Dimensions

Connection diagram *Terminals: 3-pole D-L-N 2.5 mm² max*

		LSI-70T1	LSI-150T20	LHI-400ST10	LSI-400ST20	LSI-1000T10
Lamp	High pressure sodium (W)	35-70	100-150	100-400	100-400	400-1000
	Metal halide (W)	-	35-150	70-400	100-400	400-1000
	Ceramic metal halide (W)	-	35-150	250-400	250-400	-
Max. contin. lamp current (A)		1	1.8	4.6	4.6	12
Cut out time (min)		2	20	16	DIGITAL ¹⁾	18
Operating voltage (V)		198-264	198-264	198-264	198-264	198-264
Cut-out voltage (V)		≤ 170	≤ 170	≤ 170	< 170	≤ 170
Ignition voltage (kV)		1.9 ... 2.3	4.0 ... 4.5	3.5 ... 4.5	4.0 ... 4.5	4.0 ... 4.5
Impulse width (μs)		2 (1.5 kV)	1.4 (2.0 kV)	1.0 (2.0 kV)	0.9	1.7 (2.5 kV)
Phasing (°el)		60-90 / 240-270	60-90 / 240-270	60-90 / 240-270	60-90 / 240-270	60-90 / 240-270
Pulses per half cycle		2	3	3	3	3
Max. load capacitance (pF)		200	100	100	100	100
Internal losses (W)		<1.0 (25°C; 1A)	<1.0 (25°C; 1.8A)	<3.0 (25°C; 4.6A)	<3.3	<6.0 (25°C; 12A)
Max. housing temp. (°C)		105	105	105	105	105
Min. ambient temp. (°C)		-30	-30	-30	-30	-30
Weight (g)		105	128	184	160	450
Dimensions AxBxC (mm)		88x34x28	88x34x28	92x39x33	93x38x32	108x55x43

1) Cut-out timing sequence for LSI-400ST20



Additional specifications for LSI-400ST20

- Intelligent timer with μC for light source protection and energy saving operation
- Protective against power-line overvoltage
- Lamp protection during ignition
- Continuous lamp-state check
- Stable ignition over a wide temperature range
- Radio-frequency interference level 0,1% to standard timed version
- Long life performance
- Approval to EN 61347, EN 60927, EN 55014

Helvar Ignitors For High Pressure Sodium- and Metal Halide Lamps

Ignitor	HIGH PRESSURE SODIUM									CERAMIC METAL HALIDE						METAL HALIDE							
Watt	35	50	70	100	150	250	400	600	1000	35	70	100	150	250	400	35	70	100	150	250	400	1000	
L-70																							
LSI-70T1																							
L-150																							
LSI-150T20																							
HI-400S																							
LHI-400ST10																							
LSI-400ST20																							
L-1000																							
LSI-1000T10																							

 Recommended combination

T1 Automatic cut-out 2 min
T10 Automatic cut-out 18 min
T20 Automatic cut-out 20 min