

## Electronic ballast for low pressure sodium lamps (SOX)

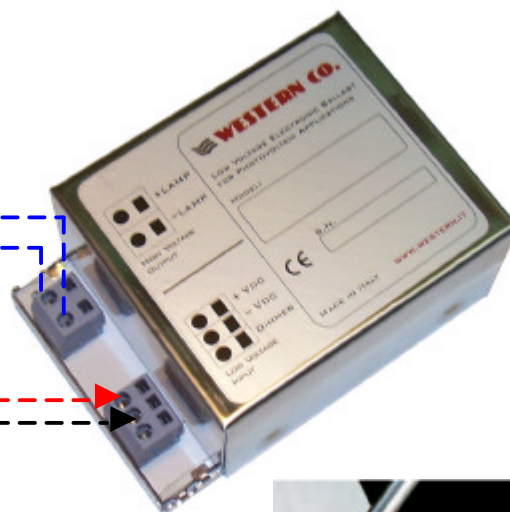
### Cabling scheme

#### Lamp output

- connect the lamp supply cables without a particular polarity direction.



Cables until to 2,5mm<sup>2</sup>



#### Low Voltage Power Supply

- Connect power supply cables respecting the polarities.

Example of cable connection to the Cage Clamp<sup>®</sup> terminal block



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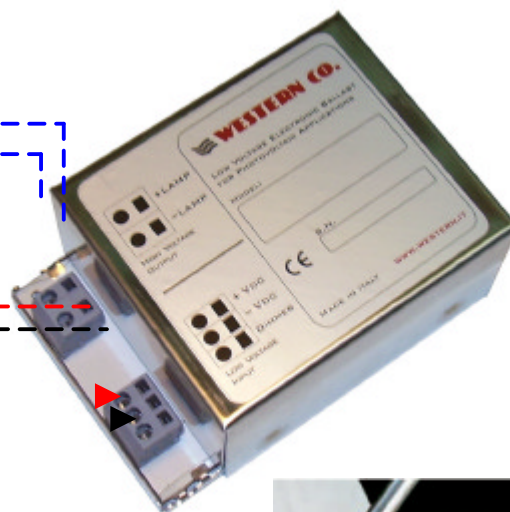
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### Installation procedure:

SOX91E ballast has been designed for installation in lamp-holders, searchlights or electronic box that have a superior IP degree protection against dust and water. During installation pay attention **respecting polarities and avoiding short-circuits; they are destructive and void warranty.** We advise to connect battery cables (power supply) only after having connected all the other ones. Place the ballast in the selected place, having care to block the position through the fixing hole. Connect lamp cables to the output terminal block without a particular polarity direction, connect the power supply cables respecting the right polarities, using a screw driver for the *Cage Clamp<sup>R</sup>* terminal block. In case of direct power supply from battery the connection provokes the lamp turning on and the put in function of the device. *In this hardware version of ballast, the flux reduction function is not implemented.*

### Warning!!

**It is anyway possible to have HIGH VOLTAGE at lamp terminal block and lamp itself. Avoid any kind of contact to this zone during normal operation or after activation of the equipment.**

### Electric features:

FEATURE	SYM	CONDITION	MIN	TIP	MAX	UNIT
Power supply:	Working voltage:	VDD 24V	20	25,2	30	V
	Working current:	IDD SOX 91W, VDD=25,2V	3,4	3,6	3,8	A
Output voltage (without lamp)	VLAMP	T=25°C	380	420	460	Vrms
Initial peak current	IPEAK	T=25°C	5	6	8	A
Operative Frequency	FOSC	T=25°C	19,4	20,0	20,6	KHz
Efficiency	EFF	SOX 91W, VDD=24V	88	90	92	%
Dimmer Input Voltage	VFin	T=25°C	0	5	5.5	V
Working environment temperature	TA		-10	25	50	°C
Section of power wires	-		-	2,5	-	mm <sup>2</sup>
IP protection	IP		20			
Dimensions	-		124 x 78 x 48			
Weight	W		-	300	-	g

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### Installation procedure:

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#### Low Voltage Power Supply

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Example of cable connection to the Cage Clamp<sup>R</sup> terminal block



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