

SOLLATEK HELIO BALLAST

230V a.c. High Frequency Ballast For 1-2 T8 Style Fluorescent Lamps

The Helio A18328 and A36328 are high-frequency electronic ballasts supplying 1 or 2 18W or 36W T8 fluorescent lamps from a 230Vrms a.c. mains supply. They present a high power factor (>0.9) to the input supply and can operate over a wide input voltage range of 180V to 260V a.c. rms.



APPLICATIONS

- Fluorescent lighting applications
- Building
- Refrigeration
- Displays
- Advertising

FEATURES

- High input power factor (>0.9)
- Wide input voltage range 180V to 260Vrms
- Spring loaded connection system for fast and reliable installation
- Small size 175mm x 45mm x 40mm

CHARACTERISTICS

Table 1: Electrical Characteristics

	Condition	Min	Typical	Max
Output Power* (W)	A36328			
	2 x 36W T8 tubes	64.8	72	79.2
	A18328			
	2 x 18W T8 tubes	32.4	36	39.6
Operating Input voltage range (V rms)	A18328 and A36328			
	50/60Hz	180	230	260
Input Current (A rms)	A36328			
	2 x 36W T8 tubes		0.35	
	A18328			
	2 x 18W T8 tubes		0.175	
Input Power Factor*		0.9	0.94	1
Start time* (second)	A36328	0.25	0.5	1
	A18328	0	0.1	0.5
Operating temperature range (°C)		-10		55
Storage temperature range (°C)		-10		70

*Input Voltage 230Vac rms 50Hz

Table 2: Mechanical Characteristics, both models

Dimensions LxWxH	175mm x 45mm x 40mm
Case	UL94 V0 white polycarbonate plastic
Weight	184 grams

MECHANICAL INFORMATION

It is recommended to use either an M3.5 screw/stud or No.6 self-tapping screw, together with flat and spring washer. The Helio ballasts can be mounted on a horizontal or vertical surface, depending on which mounting holes are used. The mounting positions have a pitch of 160mm.

CONNECTIONS

CAUTION!

The Helio A18328 and A36328 Ballasts are designed to operate from mains voltages and also produce high voltages on the connections to the lamps. Installation should be carried out only by suitably qualified personnel.

It is recommended to use 22AWG UL1015 600V rated wire (or equivalent solid wire) for making wiring connections to the Helio A18328 / A36328 input and output. Spring-loaded lever connectors are provided for quick and reliable installation. It is recommended to keep wire lengths as short as possible and to route the wires together where practical, ideally twisting together, to minimise the possibility of electrical interference. Input and output wiring should also be kept separate for these reasons.

Diagram 1 below should be used to connect a single fluorescent lamp to the Helio A36328 only. This should be connected between OUT1 and COMMON. It is also necessary to ensure that the link between L2-ENA and OUT2 (as supplied) is removed. Failure to remove the link will make the ballast latch-off upon application of input supply, requiring the input supply to be recycled to reset the condition.

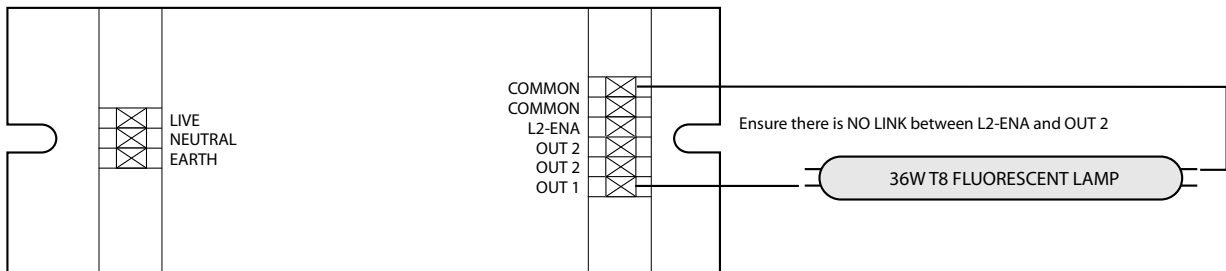


Diagram 1: Single Lamp Connection To Helio A36328 Ballast Only (top view)

The method for connecting 2 fluorescent lamps to the Helio A36328 is shown in diagram 2 below. Lamp 1 is connected between OUT1 and COMMON as with the single lamp connection. Lamp 2 is connected between OUT2 and COMMON. A wire link must also be made between OUT2 and L2-ENA (this link is supplied with the Ballast). If the link is not connected then Lamp 2 will not illuminate upon application of input supply to the ballast.

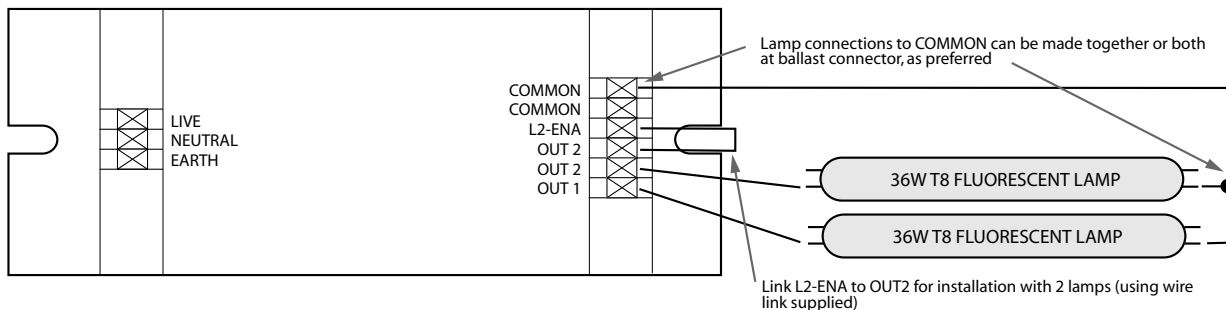


Diagram 2: Connecting 2 Lamps to the Helio A36328 (top view)

The fluorescent lamps should be connected to Helio A18328 as shown in diagram 3 below. If connecting only 1 lamp, this can be connected from either OUT1 or OUT2 to COMMON.

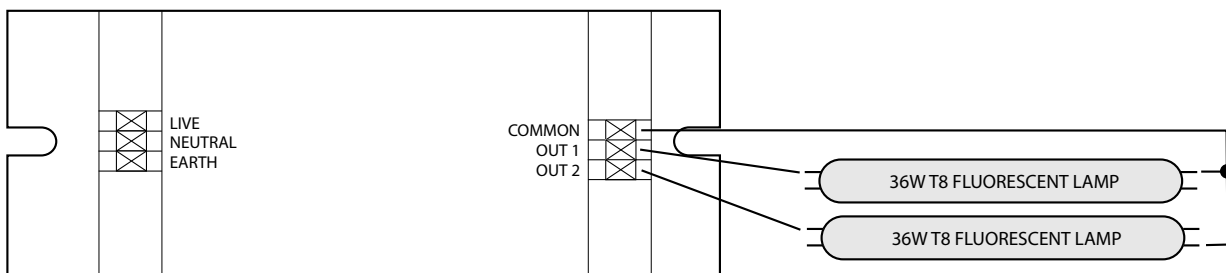


Diagram 3: Lamp Connection To A18328 Ballast (top view)