**Dimming/Connector Type** 

# **CXA-0441**

# Features

### 2-output

- Applicable panel size\*: 5 to 8 inches
- With brightness control function (Pulse Wide Modulation mode).
- •With shut down function.
- With a sensing function for running out of lamp (alarm output).
- In the high-voltage generator(a terminal and a pattern), an anti-dust measure by silicone application is taken.
- (Notice) Applicable panel size becomes a standard.

# Applications



# CXA-0441 Specifications (Please refer to each specification before use)

### **Electrical Characteristics**

ltom	Unit Symbo	Symbol	Specification		Condition							
Item		Symbol	min	typ	max	Vin(V)	Vrmt(V)	Vbr(V)	Rbr(kΩ)	Ta(℃)	RL(kΩ)	Remark
Output Current		lout	4.5	5.0	5.5	5±0.5	5	2.5	-	-10 to +75	90	Voltage dimmer (*1)
		(Maximum dimmer)	4.5	5.0	5.5	5±0.5	5	-	10	-10 to +75	90	Volume dimmer (*1)
		lout	2.1	2.6	3.1	5±0.5	5	0	-	-10 to +75	90	Voltage dimmer (*1)
		(Minimum dimmer)	2.1	2.6	3.1	5±0.5	5	-	0	-10 to +75	90	Volume dimmer (*1)
Input Current	A	lin1	-	1.32	1.57	5±0.05	5	2.5	10	-10 to +75	90	Remote ON
Input Current	mA	lin2	-	0.2	1.0	5±0.5	0	2.5	10	-10 to +75	90	Remote OFF
<b>F</b>	kHz	Freq1	49.0	52.5	56.0	5±0.5	5	2.5	10	-10 to +75	90	
Frequency	Hz	Freq2(Duty frequency)	241	255	269	5±0.5	5	(	0	-10 to +75	90	
Open Circuit Voltage	Vrms	Vopen	1250	1350	1600	4.5min.	5	2.5	10	-10 to +75	∞	Open load
Alarm Signal	V	) (at	4.0	5.1	5.5	5±0.5	5	2.5	10	-10 to +75	œ	In case of lamp anomaly (*2)
			Vst	-	0	0.5	5±0.5	5	2.5	10	-10 to +75	90

(\*1) Please refer to the connection diagram for details of a dimming method.

(\*2) Please refer to the connection diagram for details of alarm output.

#### Other Specifications

Dimming Function		Yes
Operating Temperature	°C	-10 to +75
Storage Temperature	°C	-20 to +85
Operating Humidity Ratio	RH%	95Max
Safety Standard		-
Weight	g	22
Dimensions(WxDxH)	mm	113x25x8.5 (*3)
Fused Input		Yes
Remote ON / OFF		Yes
Alarm Signal Function		Yes
Shutdown Function		Yes
Silicone Coating on High Voltage Area		Yes

Conformity to RoHs Directive This means that, in conformity with EU Directive

2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

(\*3) These dimensions are indicated the maximum only H. Others are typical values.

# **Outline Drawing**



\*From high-voltage generator, please secure space distance more than 3mm in top and bottom right and left.



unit:mm

#### Connector

Connector number	Part number	Model/Material	Quantity	Remarks	Recommended applicable connector
1	Printed circuit board PCB	Composite (CEM-3)	1	UL94V-0 t=1.0	-
2	Input connector CN1	53261-0871	1	Molex Inc.	51021-0800
3	Output connector CN2	SM03 (7-D1) B-BHS-1-TB (LF) (SN)	1	JST Mfg. Co., Ltd.	BHR-04VS-1

## **Terminal Numbers And Functions**

## Input side CN1

Terminal number	Symbol	Rated voltagex	Remarks	
CN1-1	Vin	5±0.5V	Power input	
CN1-2	VIII	5±0.5V		
CN1-3	GND	0V	Ground	
CN1-4	GND	00	Ground	
CN1-5	Vrmt	0V/2.5V to Vin	Remote terminal 0 to 0.4V : OFF 2.5 to Vin : ON Open : ON	
CN1-6	Rbr1/Vbr	0 to 2.5V/0 to 10kΩ	Dimmer terminal 1	
CN1-7	Rbr2	0 to 10kΩ	Dimmer terminal 2	
CN1-8	Vst (Output)	0V/5V	Alarm output Lump open : 5V	

### Output side CN2

Terminal number	Symbol	Rated voltage	Remarks
CN2-1	VHIGH1	450Vrms	Output 1
CN2-2	VHIGH2	450Vrms	Output 2
CN2-3	N.C.	—	N.C.
CN2-4	VLOW	(2V)	Output 1, 2 return

# Connections



#### Operate as follows by switching SW1.

SW1	Unit operation
а	Operation
b	Does not operate
Open	Operation

## Operate by a switch of SW3 to 8 as follows.

SW3 to 5	Alarm output
Open	Operation (5V output)
Close	Does not operate (0V output)
	1
SW6 to 8	Alarm output
Open	Does not operate (0V output)

Operation (5V output)

Close

#### Operate as follows by switching SW2.

SW2	Unit operation
а	Voltage dimmer Vbr=0 to 2.5V (2.5V: Maximum brightness)
b	Volume dimmer VR=0 to 10kΩ (10kΩ: Maximum brightness)