# SBS vision solution
Controller For Line Scan Lights

Products Features

► Channels can be controlled individually, communication command can be combined by one code or series of codes.

► The intensity can be adjusted by the button in the panel and it also can be adjusted via PLC or other machine vision devices.

► It can recognize the rated power of the Line Scan Light automatically and output the related current.

► External trigger is available, RS- 232 and EIA-485 communication.

► To light up the Line Scan Light via constant current, 48V output voltage.

Model Description

SBS-DCHP-XX-XX-X

→ CHs
→ Power
→ Voltage

DCHP:
→ Digital Controller for Line Scan Lights

→ SBS Vision
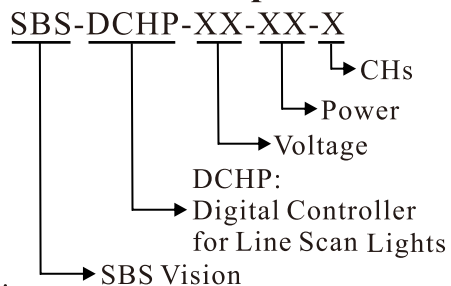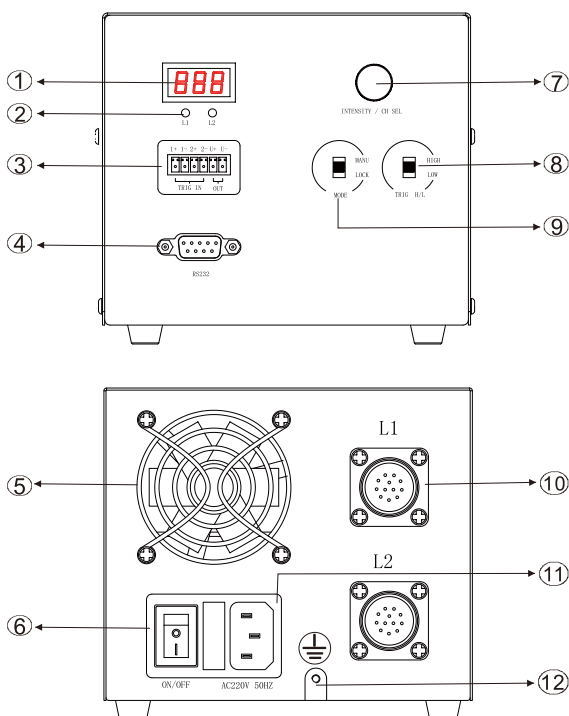
Panel description

No.	Keys	Description
①	Digital screen	\
②	Channel indicator Lamp	L1/L2 channel switch display
③	External trigger connector	\
④	Communication connector	RS-232/EIA-485
⑤	Heat release fan	\
⑥	Power switch key	Power turn on or off
⑦	Adjust key	1. Adjust the intensity level; 2. switch L1 to L2 or L2 to L1
⑧	Trigger mode switch key	HIGH: high level trigger; LOW: low level trigger
⑨	Control mode switch key	MANU/LOCK mode
⑩	Connector for Light	48V output voltage
⑪	AC power plug	AC100~240V/50~60Hz
⑫	Ground hole	M3 screw

Parameter

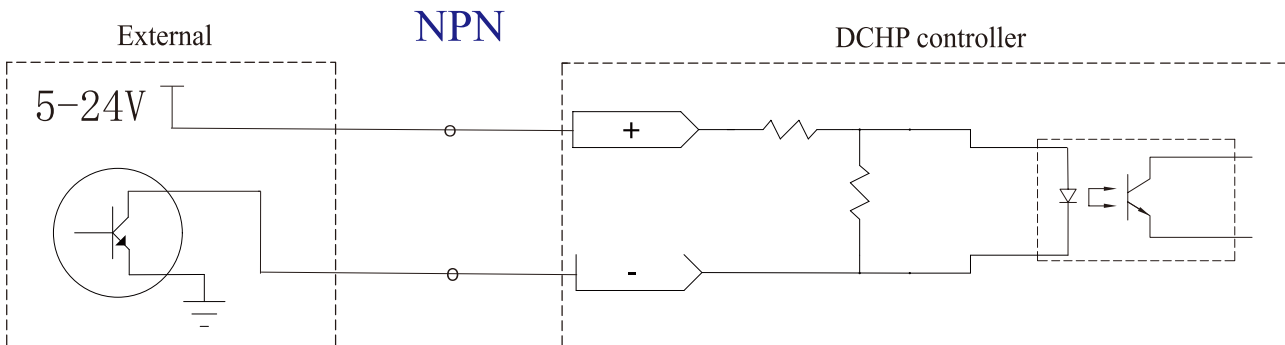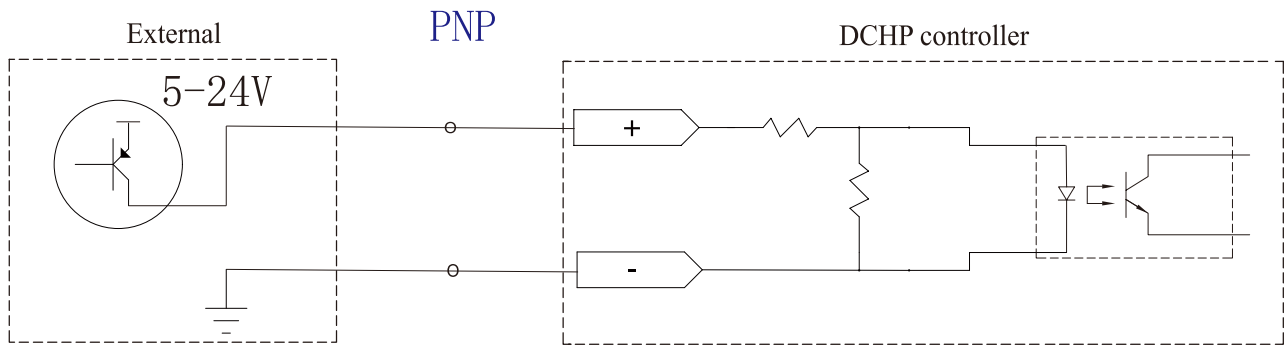| Item	Description		
Model	SBS-DCHP48-135-2	SBS-DCHP48-580-1	SBS-DCHP48-550-2
Lighting states	Continuous		
Intensity adjust method	By adjusting current		
Drive mode	Constant current		
Communication	RS-232/EIA-485		
Channel	2 channels	1 channel	2 channels
Max output power of single channel	135W	580W	270W
Total output power	135W	580W	550W
Lighting up method	Constant current		
Input voltage	AC100~240V		
Trigger input voltage	DC5~24V		
Output voltage	DC48V		
Lighting trigger delay	Not more than 50us		
ID identify	Automatic identify		
ID setting	Setting by software (0-99)		
Heat release fan	Fan will be started up when the temperature of panel is more than 55℃ will be stopped when the temperature is below 45℃, it shows error when the temperature is more than 85℃		
Error detection display	Over temperature protecction of Controller shows "E01" Temperature control fault of Controller shows "E05" Over current protection of Light shows "E02" Over temperature protecction of Light shows "E03" Temperature control fault of Light shows "E04"		
Usage environment	Temperature: -10～50°C humidity: 20～85%RH (not frozen)		
Storage environment	Temperature: -20～60°C humidity: 20～85%RH (not frozen)		

Connector
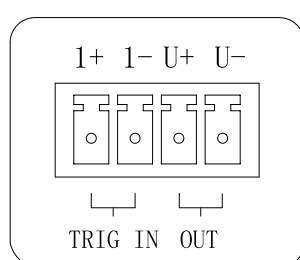
Pin	Definition	
1+	One channel	Trigger +
1−		Trigger -
U+	5V/200mA output	Output +
U−		Output -

1+ 1− U+ U−

TRIG IN OUT

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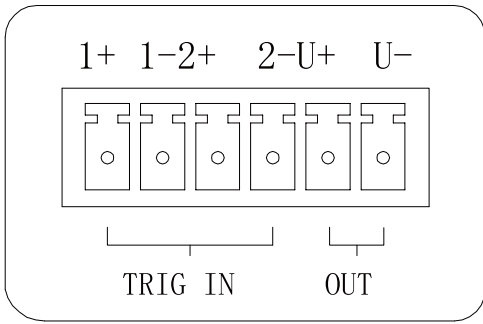
Pin	Definition	
1+	One channel	Trigger +
1−		Trigger -
2+	Two channels	Trigger +
2−		Trigger -
U+	5V/200mA output	Output +
U−		Output -

Panel connector:
`1+  1− 2+  2− U+  U−`
TRIG IN   OUT

Control mode and lighting mode

Trigger input method

PNP

External   5−24V   DCHP controller

NPN

External   5−24V   DCHP controller
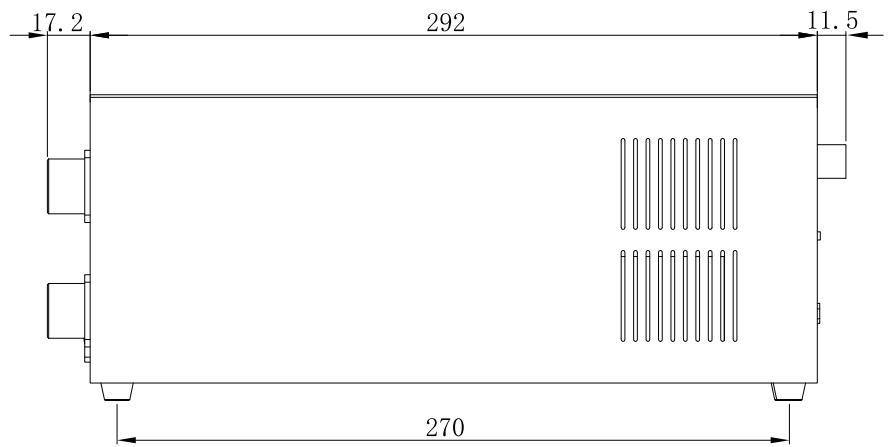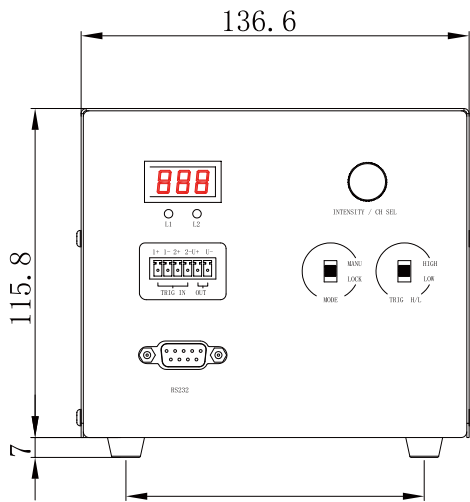

∗ Switches with strong mechanical characteristics such as relays cannot be used as external actuation of the controller.

Control mode

Trigger mode to HIGH	Trigger mode to LOW
Input signal: High / Low	Input signal: High / Low
Light source output: not bright / bright / not bright	Light source output: not bright / bright / not bright
<50us	<50us
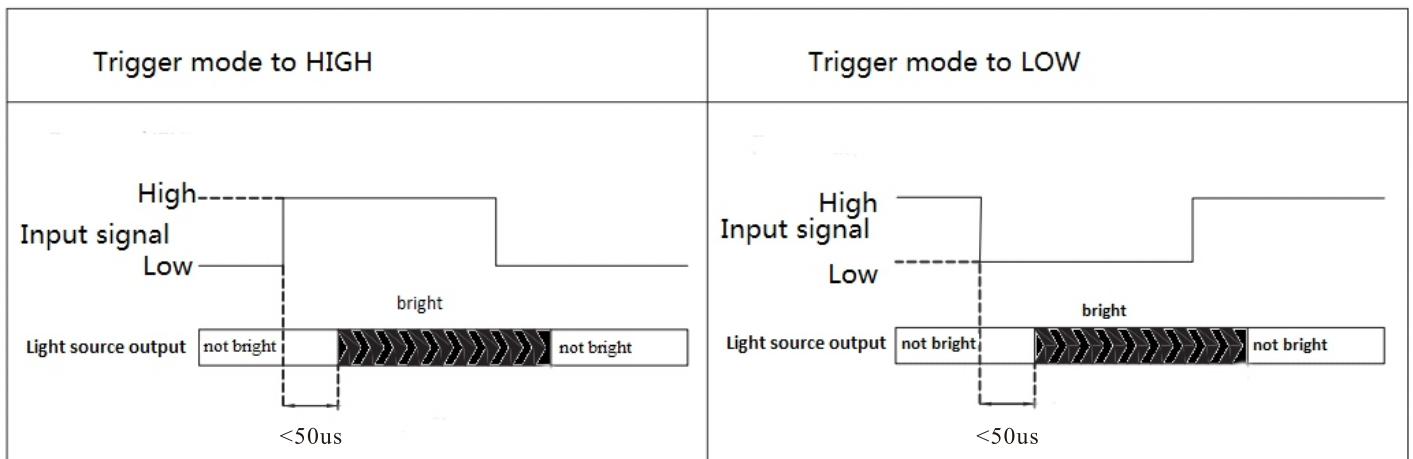
Dimensions (mm)

SBS-DCHP48-580-1/SBS-DCHP48-550-2

SBS-DCHP48-135-2