

Pressroom Electronics, Inc.
 6 Channel Remote Die Box
 With Indicator lights, and 24vdc power supply

PN: 28-159 (design 31-105)



Description:

The 6 channel remote die box allows you quickly change out die sensors using either Lumberg or Banana jacks, power active sensors, and monitor the current status of your die sensors (PNP or NPN)

Installation:

Apply 120vac L & N to Brown & RED/White stripe, Earth GND to RED & Shield wires.

Attach your Die Sensors to the Jacks. Wire the Die# out Pins to the Die inputs of your control.

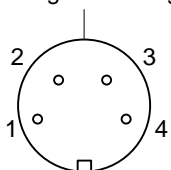
Connect the Violet Ground wire to the Ground of your control so they are common.

If you use the built in 24vdc power supply, you may also be required to disable other 24vdc sources and use this one only.

Banana Jack: Passive GND sensors
 When used you must jumper Pin 1 to 3 on Lumberg receptacle (female) (i.e. NPN only)

Indicator LEDs: GREEN = NPN, RED = PNP

Lumberg SV40 Plug: Active PNP or NPN sensors



Shown view from solder end of Plug

- Pin 1: Jumper to Pin 3 if NPN, to Pin 4 if PNP
- Pin 2: Sensor Output (NPN or PNP)
- Pin 3: +24vdc from Die Box power supply
- Pin 4: GND from Die Box power supply

**See Backside for:
 16 Pin Connector Cable wiring,
 and PNP/NPN SELECTION**

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16 Pin Circular Connector Cable:

Wire Color	Description	Connection to PC8 Junior	Connection to PressCommander (Terminal Strip)
BRN	120vac (Line) input to Die Box	Line (J4-7)	Terminal #3
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RED	Earth Ground	Ground (J4-8)	Terminal #GND
ORG	+24vdc out from Die Box	See bottom note (below)	See bottom note (below)
YEL	+24vdc out from Die Box	---	---
GRN	Die #6 Output	Die IN #6 (J3-6)	Std Terminal #27 (Dual #31)
SHIELD	Case Ground	Chassis	Chassis
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BLU	Die #5 Output	Die IN #5 (J3-5)	Std Terminal #26 (Dual #30)
VLT	0vdc Ground common	-24vdc output (J4-1)	Terminal #GND
GRY	Die #2 Output	Die IN #2 (J3-2)	Std Terminal #23 (Dual #27)
WHT	Die #1 Output	Die IN #1 (J3-1)	Std Terminal #22 (Dual #26)
BLK	Die #3 Output	Die IN #3 (J3-3)	Std Terminal #24 (Dual #28)
BLK/WHT	Die #4 Output	Die IN #4 (J3-4)	Std Terminal #25 (Dual #29)
RED/WHT	120vac (Neutral) input to Die Box	Neutral (J4-8)	Terminal #2
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With the Junior and the Presscommander, you must decide on NPN or PNP sensors and configure the DieBox and accordingly as directed below.

PNP (Sourcing) Setup:

You may need to wire a Pull-Down resistor between Pin 2 - 4 of Each Lumberg Jack. The resistor can be 10k to 20k ohms 1/4watt. This can happen when your sensor device is Open Collector style.

Junior: COM J3-7 terminal wired to -24vdc (Terminal J4-1)

Presscommander: J9-9 (yellow wire on both Master and Slave boards) wired to Terminal #GND

NPN (Sinking) Setup:

You may need to wire a Pull-Up resistor between Pin 2 - 3 of Each Lumberg Jack. The resistor can be 10k to 20k ohms 1/4watt. This can happen when your sensor device is Open Collector style.

Junior: COM J3-7 terminal wired to +24vdc (Orange Wire from Die-Box)

Presscommander: J9-9 (yellow wire on both Master and Slave boards) wired to Terminal #4 (+24vdc)

Using the Built in +24vdc supply in the Die-Box:

Junior: Do not use the +24vdc built into the Junior (J4-2). For NPN setup the Orange wire get connected to the COM J3-7 terminal. For PNP, Orange wire is not used.

Presscommander: Do not use the +24vdc built in to the Presscommander (disconnect wire coming from P5-4 of the Power/Relay board (heavy blue wire), and wire the Orange Die-box wire over to Terminal #4 of the Terminal Strip.