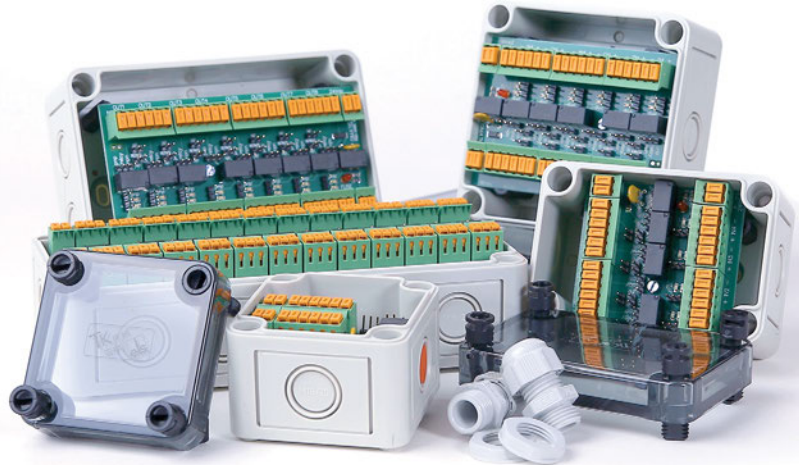


## Sensor Junction Box – SB

- Connect different types of sensors individually or in a series.
- Signals can be converted (PNP to NPN & NPN to PNP).
- I/O may be PNP = sourcing, NPN = sinking, or dry contact.
- Self-stripping wire connectors are used for fast & easy wiring.
- Several boxes may be connected in a series to accommodate additional sensors.
- LED indicators allow for easy troubleshooting.
- Regenerates signals & protects contacts.
- Profile mounting kit & four strain reliefs are included.



Watch our How-To Sensor Box Video!

### Sensor Junction Box

### Sensor Junction Box Mounting Brackets (optional)

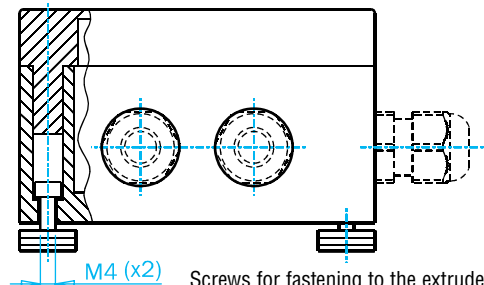
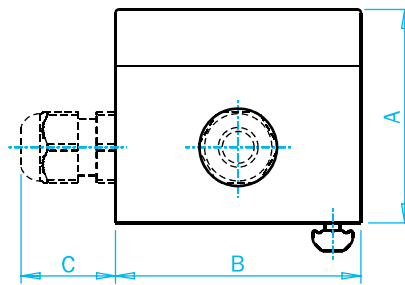
Quick#	Part#	Max. # of Sensors	Price	Quick#	Part#	Price	Dimensions:
6753	SB2C	2	\$67.00	6737	SB2C-MP	\$11.05	65x84x3
6754	SB4C	4	\$89.00	6738	SB4C-MP	\$12.22	94x84x3
6685	SB6C	6	\$150.00	6687	SB6C-MP	\$13.00	113x94x3
6755	SB8C	8	\$163.00	6739	SB8C-MP	\$14.95	130x113x3
6686	SB12C	12	\$232.00	6688	SB12C-MP	\$16.84	180x113x3

*Note: All brackets have a 20mm tab for optional mounting position.*



### Replacement Jumpers

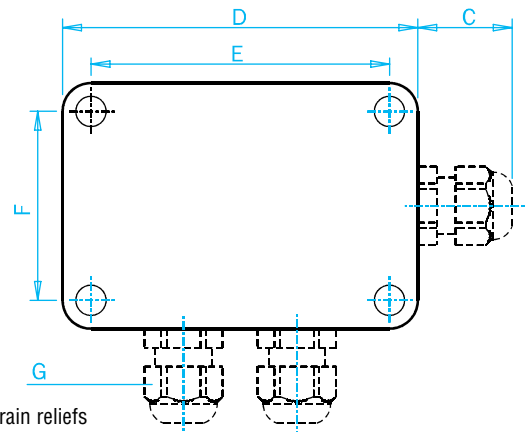
Quick#	Part#	Price	Description
7605	SB-JUMPER-18	\$1.60	Qty: 18 Jumpers, For SB2C, SB4C, SB6C
7606	SB-JUMPER-31	\$2.60	Qty: 31 Jumpers, For SB8C, SB12C



M4 (x2) Screws for fastening to the extruded profile

Use Quick#s for easy online ordering.

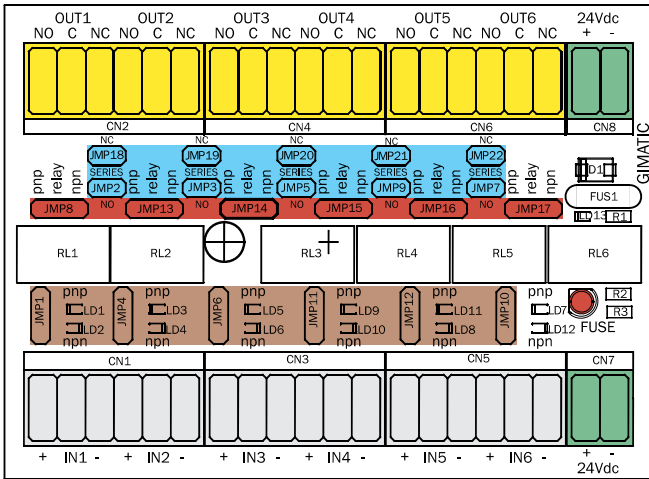
	SB2C	SB4C	SB6C	SB8C	SB12C	SB8F	SB15T
A	57	57	57	57	57	57	57
B	65	65	94	94	94	65	65
C	25	25	25	25	25	25	25
D	65	94	94	130	180	94	94
E	50	79	79	115	165	79	79
F	50	50	79	79	79	50	50
G	n°2	n°3	n°4	n°6	n°8	n°3	n°3
Wt.	120g	160g	190g	235g	325g	165g	150g



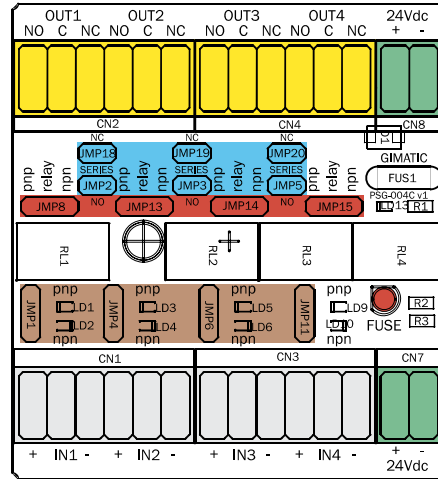
Strain reliefs

Sensor Junction Box – SB

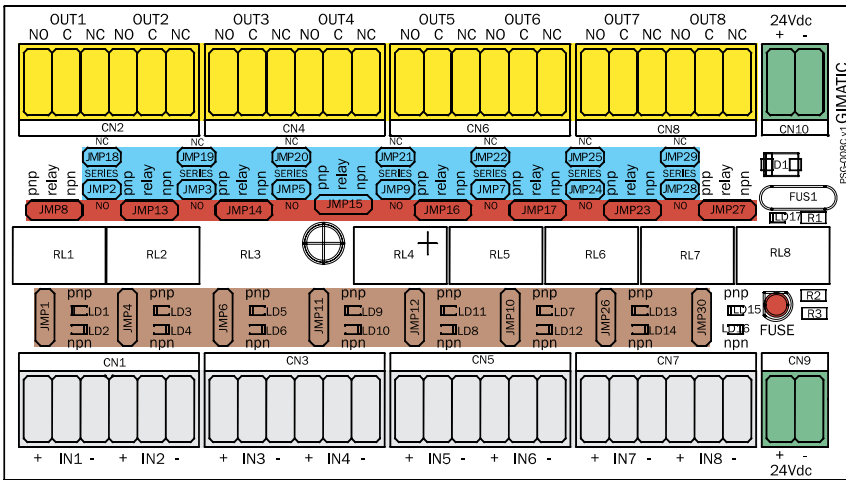
SB6C 6 sensors maximum



SB4C 4 sensors maximum



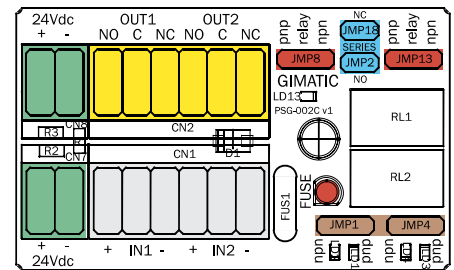
SB8C 8 sensors maximum



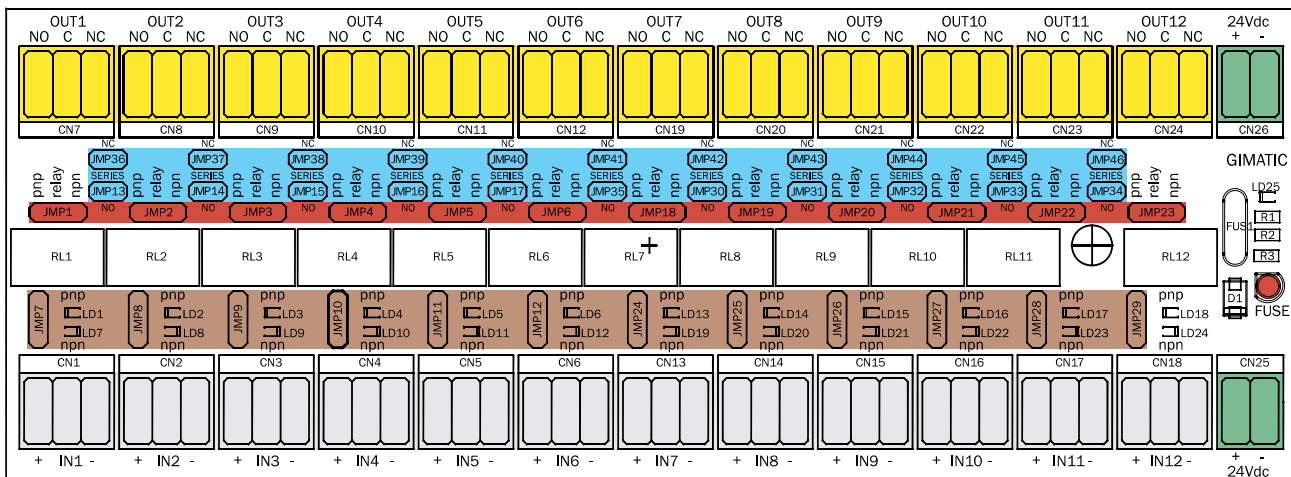
Color legend:

- Green = 24V dc (+/- 10%)
- Gray = Sensor input area
- Brown = Jumper selector for input sensor type
- Red = Jumper selector for desired output
- Blue = Jumper selector for Series connections (NO = Normally Open) or (NC = Normally Closed)
- Yellow = Output area

SB2C 2 sensors maximum



SB12C 12 sensors maximum



# Sensor Junction Box – SB

## Sensor Box Examples:

It's necessary to connect all sensors in succession when a series connection is desired. Normally open (NO) or Normally closed (NC).

### Color legend:

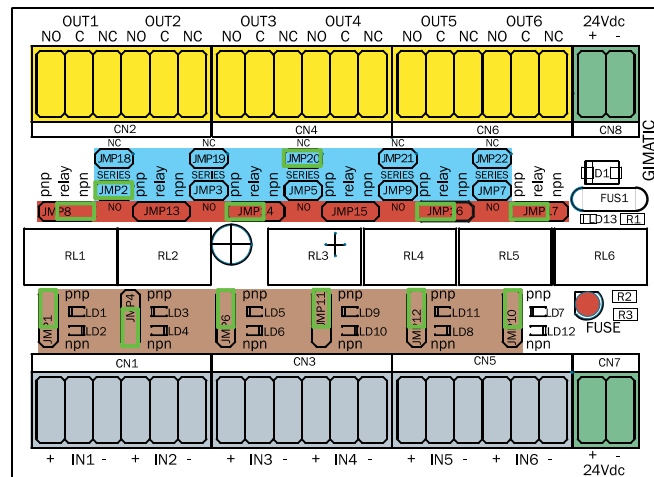
- Green = 24V dc (+/- 10%)
- Gray = Sensor input area
- Brown = Jumper selector for input sensor type
- Red = Jumper selector for desired output
- Blue = Jumper selector for Series connections (NO = Normally Open) or (NC = Normally Closed)
- Yellow = Output area
- Green rectangle= Jumper

### Example 1

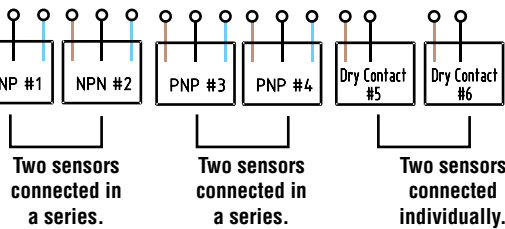
SB6C

2 Sensors in a series + 2 sensors in a series + 2 sensors individually

(NO) NPN output for series connection #1-2      (NC) PNP output for series connection #3-4      (NO) PNP output for individual connection #5      (NO) PNP output for individual connection #6



24Vdc Power may be supplied to either of the green terminals.

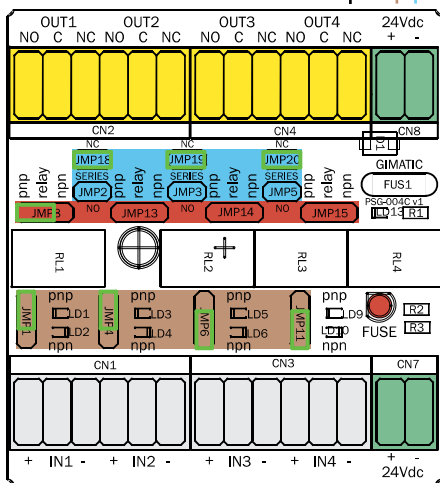


### Example 2

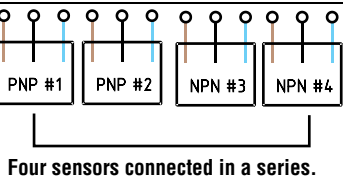
SB4C

4 Sensors in a series (Normally closed output)

(NC) PNP output for series connection of sensors #1-4



24Vdc Power may be supplied to either of the green terminals.

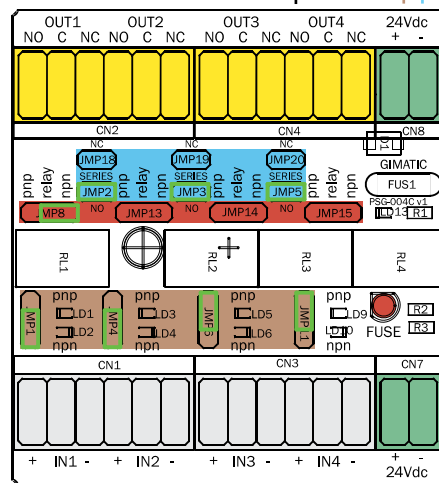


### Example 3

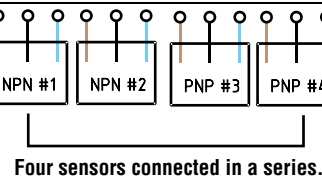
SB4C

4 Sensors in a series (Normally open output)

(NO) NPN output for series connection of sensors #1-4



24Vdc Power may be supplied to either of the green terminals.



Sensor Junction Box – SB

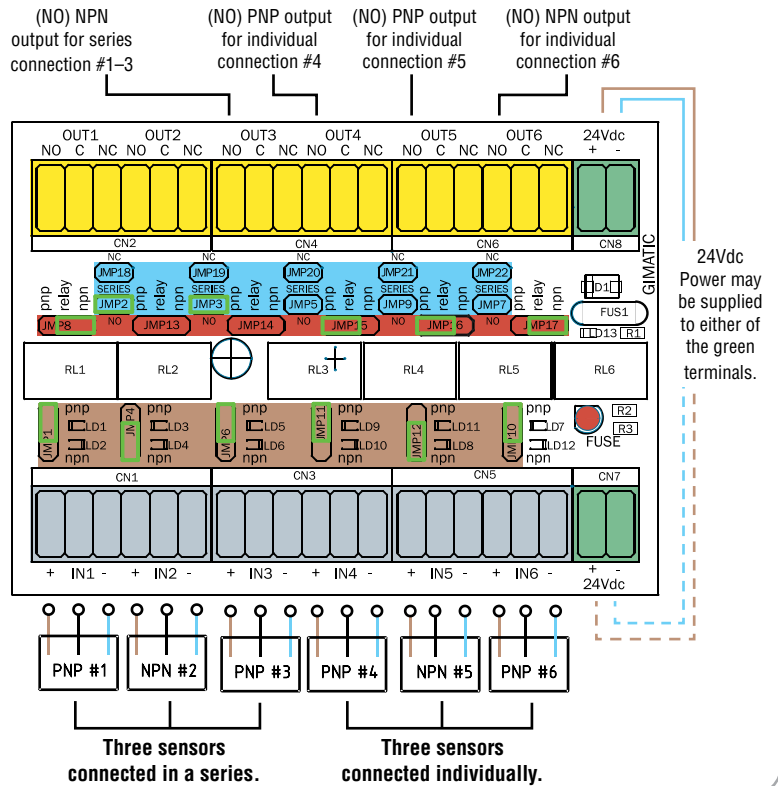
The SB series sensor junction boxes are designed to condition sensor signals and ultimately provide signals suitable for a PLC. The board is equipped with a self-restoring fuse which protects the controls from possible short circuit. The electrical box is equipped with PG9 cable connectors which provide IP65 protection of the board. The push-down wire connectors also strip the wire. A manual included with the sensor box will demonstrate this, and more.

**Color legend:**

- Green = 24V dc (+/- 10%)
- Gray = Sensor input area
- Brown = Jumper selector for input sensor type
- Red = Jumper selector for desired output
- Blue = Jumper selector for Series connections (NO = Normally Open) or (NC = Normally Closed)
- Yellow = Output area
- Green Rectangle= Jumper

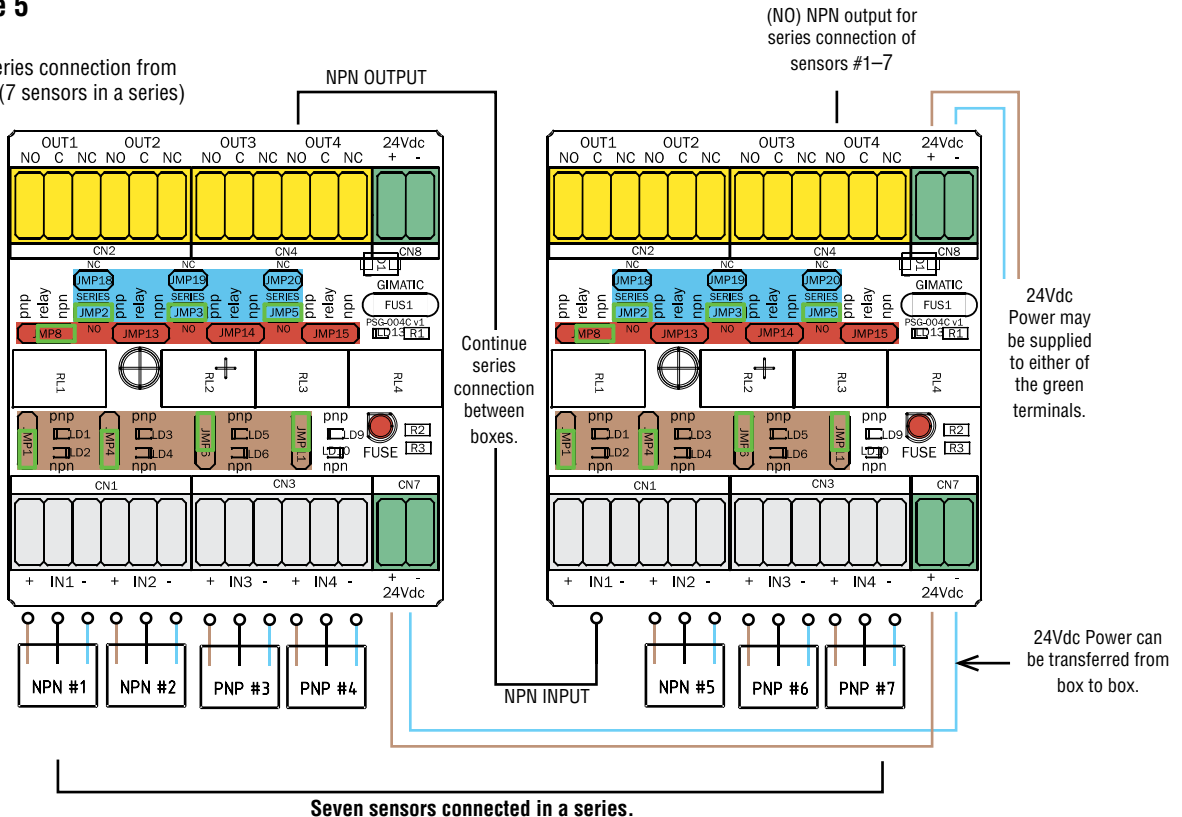
**Example 4**

SB6C  
3 Sensors in a series + 3 sensors individually



**Example 5**

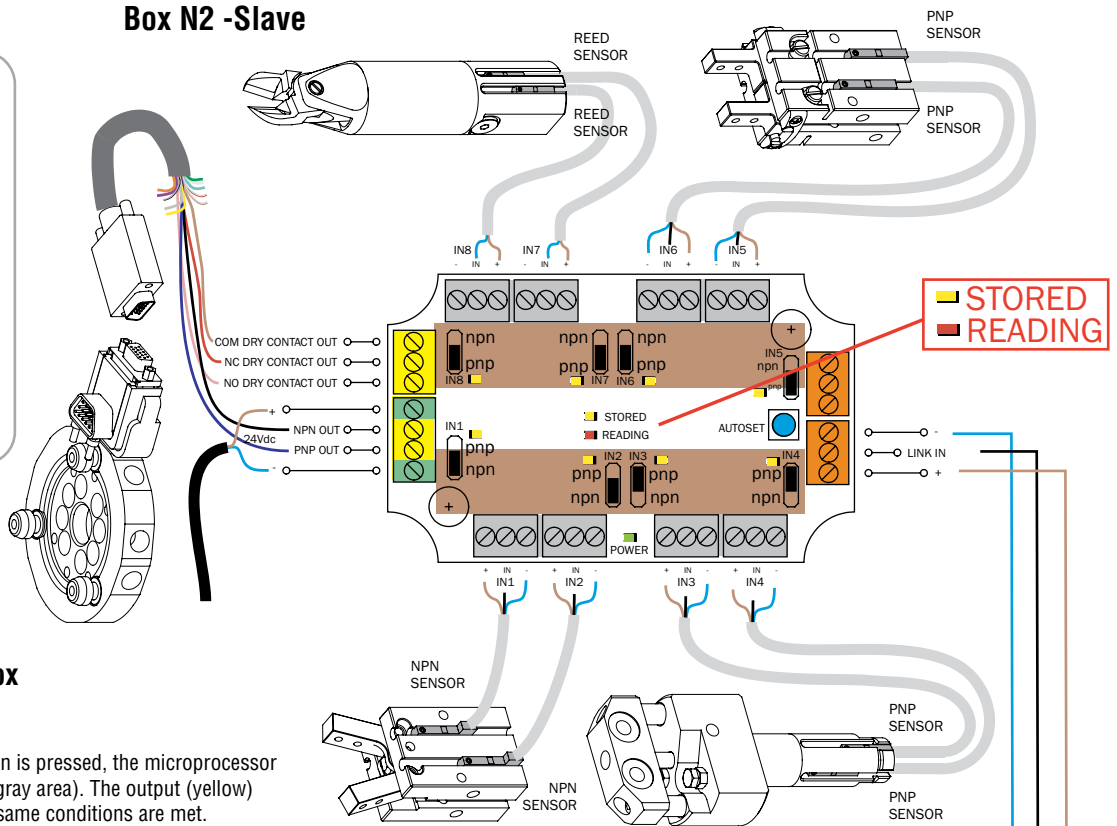
(2x)SB4C  
Continue series connection from box to box (7 sensors in a series)



# SB – Microprocessor Box

### Color legend:

- Green = 24V dc (+/- 10%)
- Gray = Sensor input area
- Brown = Jumper selector for input sensor type
- Orange = For connecting multiple boxes in series
- Blue = Autoset Button
- Yellow = Output area



## Microprocessor Sensor Box

(Dimensions shown on page 988)

**Functioning:** When the autoset button is pressed, the microprocessor memorizes the status of the inputs (gray area). The output (yellow) area will be activated every time the same conditions are met.

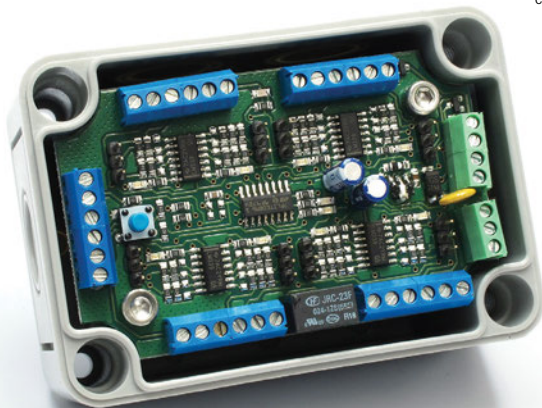
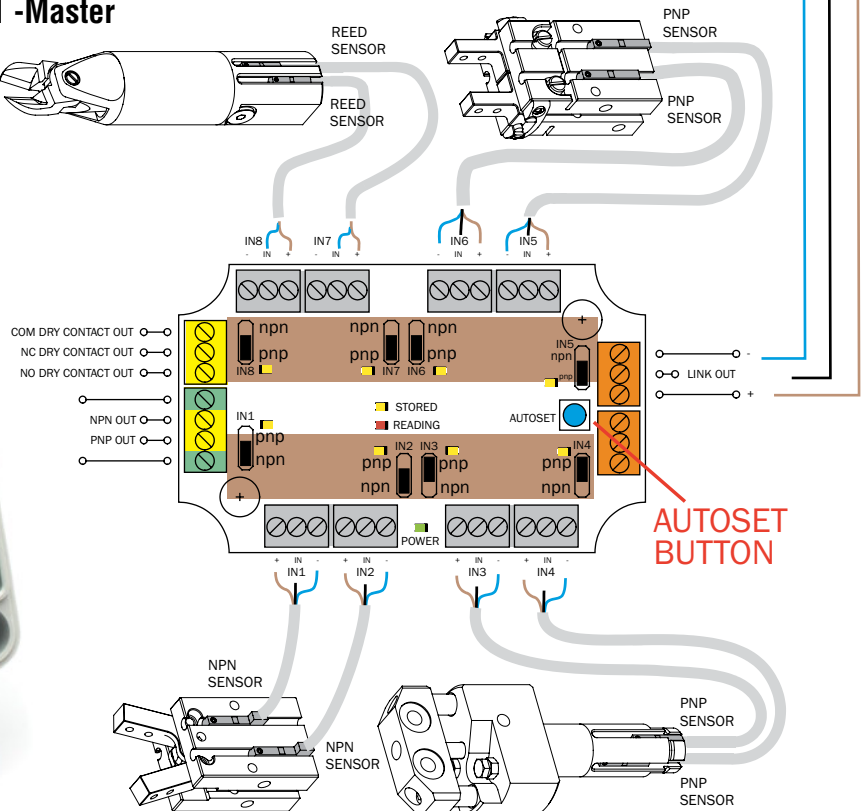
**Inputs:** Maximum 8 PNP, NPN or dry contact (NO or NC) sensors switched by jumpers (brown area).

**Outputs:** 1 PNP, NPN or dry contact (NO or NC) (yellow area) output.

### Microprocessor Sensor Box

Quick#	Part#	Price
6461	SB8F	\$170.00

### Box N1 -Master





# Terminal Box – SB

## Terminal Cabling Box

(Dimensions shown on page 988)

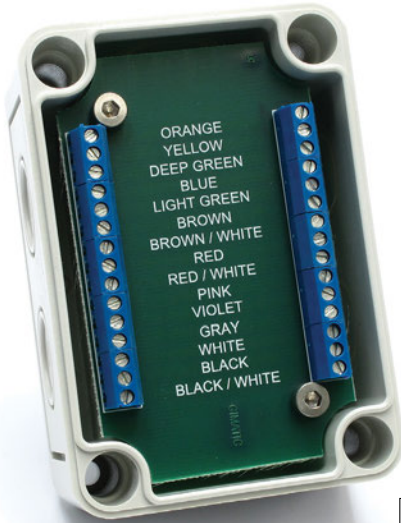
This terminal box is used primarily for EOAT's using multiple electrical boxes. Use this terminal box as a junction area between outputs from multiple electrical boxes and the electrical cable from the quick changer.

**Inputs:** 15 inputs (to outputs)

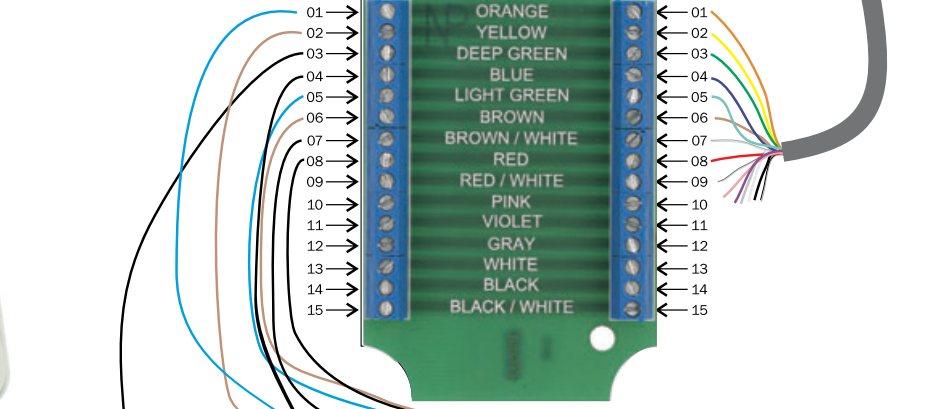
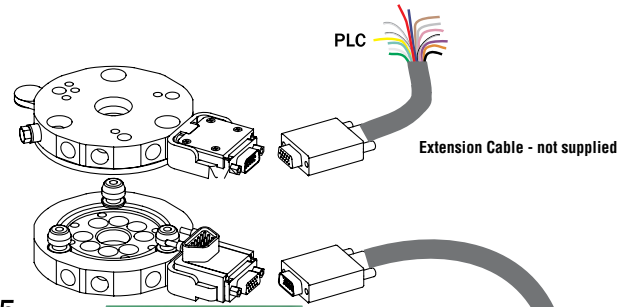
**Outputs:** 15 outputs (from inputs)

### Terminal Cabling Box

Quick#	Part#	Price
5308	SB15T	\$78.20



SB15

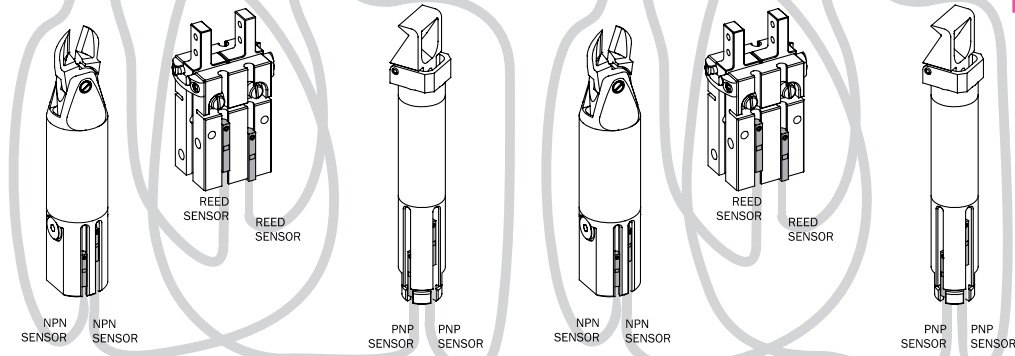
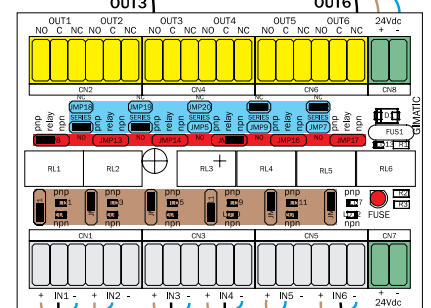
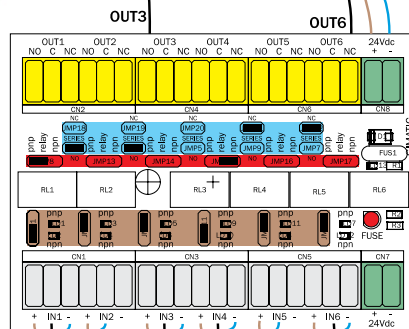


PNP NO signal output for all pneumatic devices "open" by IN1, IN2, IN3 series

NPN NC signal output for all pneumatic devices "closed" by IN4, IN5, IN6 series

PNP NO signal output for all pneumatic devices "open" by IN1, IN2, IN3 series

NPN NC signal output for all pneumatic devices "closed" by IN4, IN5, IN6 series



EOAT

EOAT