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- Gang-mounting of up to 18 amplifiers
- Cross-talk protection
- Lower installation costs

	SU18-16 Potentiometer	SU18 Pushbutton	SU19 Main and Expansion
Indication	Green and yellow LEDs	Green and yellow LEDs	Green and yellow LEDs
4-Digit Display	No	No	Yes
Potentiometer Adjustment	•		
Pushbutton Programming			•
Clear Object Detection			
Remote-Teach Input			
Quick Disconnect Models			
Switching Frequency	6 kHz	6 kHz	16 kHz
Gang-Mounting			•

#### **SPECIFICATIONS**

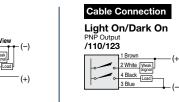
		Potentiometer Adjustable		Pushbutton Programming	
Model Number(s)		SU18-16/40a/110/115/126a	SU18-16/40a/110/115a/126a	SU18-40a/110/115/123	SU18-40a/110/115a/123
Sensing Range		Determined by cable	Determined by cable	Determined by cable	Determined by cable
Sensitivity Adjustment		Yes	Yes	Yes	Yes
Output 4	FOUR OUTPUTS TATE  ONE SENSOR  /110	4-in-1*	4-in-1*	4-in-1*	4-in-1*
<b>Load Curre</b>	ent	100 mA max.	100 mA max.	100 mA max.	100 mA max.
Voltage Dr	ор	≤ 2.0 VDC	≤ 2.0 VDC	≤ 2.0 VDC	≤ 2.0 VDC
Short Circu Overload P		Yes	Yes	Yes	Yes
Reverse Po Protection	olarity	Yes	Yes	Yes	Yes
Supply Voltage		10-30 VDC	10-30 VDC	10-30 VDC	10-30 VDC
Voltage Rip	pple	10%	10%	10%	10%
LED(s)		Yes (2)	Yes (2)	Yes (2)	Yes (2)
Current Co	-	≤ 30 mA	≤ 30 mA	≤ 30 mA	≤ 30 mA
Operating I		Light on/dark on	Light on/dark on	Light on/dark on	Light on/dark on
Response	high resolution	2 ms	2 ms	2 ms	2 ms
Time	standard	160 µs	160 µs	160 µs	160 µs
	high speed	80 µs	80 μs	80 µs	80 μs
Readiness Delay		≤ 300 ms	≤ 300 ms	≤ 300 ms	≤ 300 ms
Timer Function		On delay, off delay	On delay, off delay	On delay, off delay	On delay, off delay
Switching Frequency		6 kHz	6 kHz	6 kHz	6 kHz
Protection (IEC)		IP50	IP50	IP50	IP50
Light Source	ce	Visible red LED 660 nm	Visible red LED 660 nm	Visible red LED 660 nm	Visible red LED 660 nm
Ambient Li	ight Resistance	≤10,000 lux (sunlight)	≤ 10,000 lux (sunlight)	≤ 10,000 lux (sunlight)	≤ 10,000 lux (sunlight)
		≤ 5,000 lux (incandescent)	≤ 5,000 lux (incandescent)	≤ 5,000 lux (incandescent)	≤ 5,000 lux (incandescent)
Temp.	working	14 °F to 131 °F	14 °F to 131 °F	14 °F to 131 °F	14 °F to 131 °F
Range	storage	-4 °F to +158 °F	-4 °F to +158 °F	-4 °F to +158 °F	-4 °F to +158 °F
Housing M	laterial	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Weight		1.6 oz	0.9 oz	1.6 oz	0.9 oz
Standards		EN 60947-5-2	EN 60947-5-2	EN 60947-5-2	EN 60947-5-2
Approvals		CE cULus	CE cULus	CE cULus	CE cULus
Electrical (	Connection	2 m cable, PVC covered 4-conductor, #26 AWG	200 mm pigtail, PVC covered, quick disconnect	2 m cable, PVC covered 4-conductor, #26 AWG	200 mm pigtail, PVC covered, quick disconnect

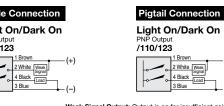
<sup>\*</sup> NPN normally open, NPN normally closed, PNP normally open, PNP normally closed

### **ELECTRICAL CONNECTION (SU18 SERIES)**

<b>Cable Connection</b>				
Light On/Dark On				
NPN Output /110/126a				
مسما	1 Brown 2 White Weak (+)			
، آسنا	4 Black Signal Load			
1	3 Blue (-)			







## Weak Signal Output: Output is on for insufficient gain.

#### **Main Unit Expansion Unit** SU19/110/115/123 SU19.1/110/115 Determined by cable Determined by cable Yes Yes 4-in-1\* 4-in-1\* 100 mA max. 100 mA max. ≤ 2.0 VDC ≤ 2.0 VDC Yes Yes Yes Yes 10-30 VDC 10-30 VDC 10% 10% Yes (2) Yes (2) ≤ 30 mA ≤ 30 mA Light on/dark on Light on/dark on 2 ms 2 ms 160 µs 160 µs 30 µs 30 µs ≤ 300 ms ≤ 300 ms On delay, off delay, one shot On delay, off delay, one shot 16 kHz 16 kHz IP50 IP50 Visible red LED 660 nm Visible red LED 660 nm ≤ 10,000 lux (sunlight) ≤ 10,000 lux (sunlight) ≤ 5,000 lux (incandescent) ≤ 5,000 lux (incandescent) 14 °F to 131 °F 14 °F to 131 °F -4 °F to +158 °F -4 °F to +158 °F Polycarbonate Polycarbonate 1.6 oz 1.6 oz EN 60947-5-2 EN 60947-5-2 2 m cable, 2 m cable,

#### **ELECTRICAL CONNECTION (SU19 SERIES)**

PVC covered

4-conductor,

#26 AWG





F0- 0-	3 Blue (-)
through the	expansion unit is supplied main unit. Remote teach e on main unit

# /110/123

**Cable Connection** 

Light On/Dark On

PVC covered

1-conductor,

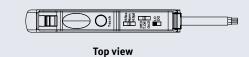
#24 AWG

#### **Potentiometer version**

SU18-16/40a/110/115/126a SU18-16/40a/110/115a/126a



## **Pushbutton version** SU18-40a/110/115/123 SU18-40a/110/115a/123



## **Diagnostic display version**

SU19/110/115/123 SU19.1/110/115



