

- \* Provides an analogue output proportional to number of active inputs
- \* Voltage, current, open-collector or volt-free contact inputs
- \* Wide range of output signals available
- \* Expandable by adding further units
- \* Universal mains power (85 to 265 VAC) or optional DC power
- \* Wall or DIN rail mounting



The 112-61S provides an analogue output proportional to the number of active inputs. Each unit will accept up to five inputs but multiple units (current output) may be connected in parallel. The number of input signals required for full scale output is set by internal switches. e.g. to provide a full scale output with 15 input signals present, three Status to Analogue Converters would be required, each set for 15 inputs.

### TYPICAL APPLICATIONS

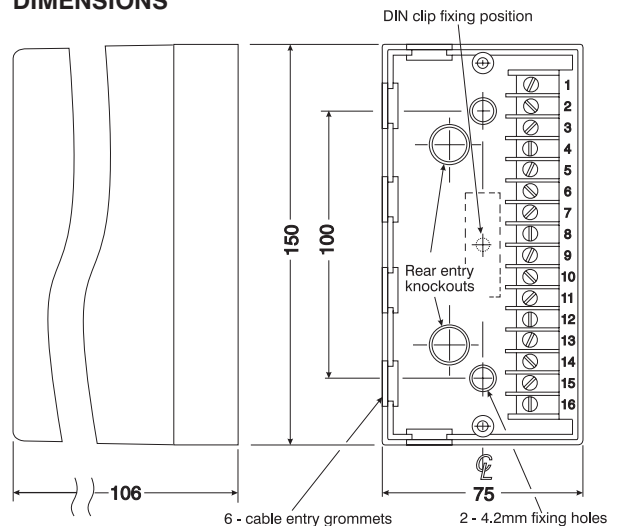
- To provide a signal to a dosing pump proportional to the number of guns being operated in a spray booth for overspray paint reclamation
- To provide an analogue signal representing total flow from several flow lines each being fed by constant flow rate pumps.

### Information Required When Ordering

- Type of Input\*
- Type of Output\*
- Supply Voltage and Frequency\*

\*see options on page two

### DIMENSIONS



## SPECIFICATION

### INPUT SIGNAL OPTIONS

- Contact closure  
(external circuit must sink 10mA approx.)
- Open collector transistor
- Voltages in the range >5V <50V  
(external circuit must source 10mA approx.)
- Current signals >10 <20mA

### OUTPUT SIGNAL OPTIONS (Others can be provided)

0-10 mA into 2000 ohms maximum  
0-20 mA into 1000 ohms maximum  
4-20 mA into 1000 ohms maximum  
Current sink 4-20mA @ 30 volts maximum  
0-5 Volts into 500 ohms minimum  
1-5 Volts into 500 ohms minimum  
0-10 Volts into 500 ohms minimum

### ISOLATION

Maximum Voltage 250V RMS or 400V DC

#### For active inputs:

each of the inputs and the output are isolated from each other and from the power supply.

#### For passive inputs:

the input stage and the output are isolated from each other and from the power supply. However, inputs are connected to each other via the shared internal isolated 24 V transducer supply.

### TEMPERATURE RANGE

Operating: -10°C to +60°C  
Storage: -20°C to +70°C

### POWER SUPPLY

Universal ac supply accepts 85 Vac to 265 Vac, 50/60Hz  
Protected by a fusible resistor.  
DC Supply Option: 24 VDC (18-36VDC) 3.5 W  
Protected by a 250mA internal self-resetting fuse.

### WEIGHT






Approx. 0.4kg

### SAFETY & EMC

Safety: EN61010-1  
Immunity: EN50082-1  
Emissions: EN50081-1  
CE certified

## TERMINAL CONNECTIONS

### Inputs

	Voltage / current	Volt-free contacts / open collector*
1	Input A (+)	1 common
2	Input A (-)	2 (+) — 
3	Input B (+)	
4	Input B (-)	4 (+) — 
5	Input C (+)	
6	Input C (-)	6 (+) — 
7	Input D (+)	
8	Input D (-)	8 (+) — 
9	Input E (+)	
10	Input E (-)	10 (+) — 

\* for open collector inputs (npn transistor), connections as for volt-free contact - emitter to common.

### Outputs

Voltage or Current Sink	Current
11 Output (-)	12 Output (-)
12 Output (+)	13 Output (+)

### Supply

14	Earth
15	Neutral
16	Line (85-265 Vac)

### DC Supply Option

Earth
Negative (-)
Positive (+)

#### Please Note:

DC Supply option is available *only* if specified at time of order.

**WARNING** THIS UNIT CAN BE MAINS POWERED, AND ALL INPUTS TO IT MUST BE ISOLATED FROM DANGEROUS VOLTAGES BEFORE THE FRONT COVER IS REMOVED. LIVE TERMINALS WILL BE EXPOSED.



Continuous development may necessitate changes in these details without notice

# SIL

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