B.M.S INPUT - OUTPUT MODULES
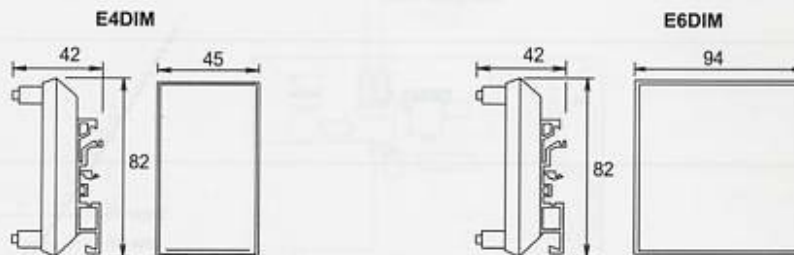## 4 & 6 DIGITAL INPUT MULTIPLEXER

E4DIM, E6DIM

These units allow up to 4 or 6 volt free inputs to be converted into a single 0-10vdc analogue output channel which can in turn be decoded by a B.M.S controller into digital status bits.

LED status indication
Input signal test links
Load > 4.7kΩ
Din-Rail mounting
Compatible with TREND A to D Function module in the IQ controller.
Max Ambient -10 /+50°C
Flammability = UL94-V0

Type	Supply ±15%	Consumption Max.	Inputs 24VAC/DC 230VAC	Output Selectable	Mounting	Protection
E4DIM	24VAC/DC	50mA	4 x Volt Free Contacts	0-9vdc or 0.4-9.4vdc	Din Rail	IP00
E6DIM	24VAC/DC	60mA	6 x Volt Free Contacts	0-10vdc	Din Rail	IP00

DIMENSIONS:
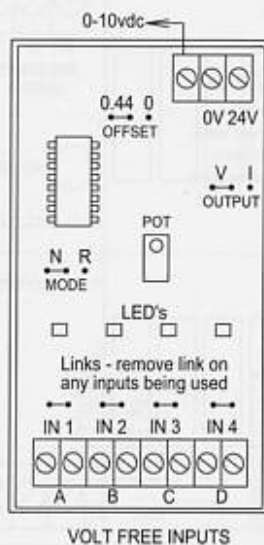
E4DIM

E6DIM

WIRING:

E4DIM

AX-DIM6-MI Connections

OUTPUT LINK:
Select V for vdc output

OFFSET LINK:
Select 0-9vdc or 0.4-9.4vdc output adjustable via pot.

MODE LINK:
Select N for normal output

Links - remove link on any inputs being used

IN 1 IN 2 IN 3 IN 4

VOLT FREE INPUTS

Jumpers

Mode: Normal or Reverse Action :

N = Normal

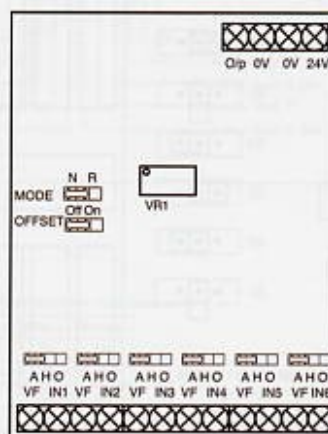R = Reverse

Offset: Voltage versions
Off = 0-10V
On = 2-10V

Current versions
Off = 0-20mA
On = 4-20mA

All inputs must be volt free. Screened cable is recommended to eliminate electrical interference.

INSTALLATION: The unit is pre-calibrated, therefore the potentiometer should not require field adjustment of the 0-10vdc signal.

Total output voltage is equal to the sum of the inputs that are switched ON :-

E4DIM 0-9vdc Output:
Input A = 4.8V B = 2.4V C = 1.2V D = 0.6V   If A + C are ON then output = 6V if B + C are ON then output = 3.6V

E4DIM 0.4-9.4vdc Output:
Input A = 5.2V B = 2.8V C = 1.6V D = 1.0V   If A + C are ON then output = 6.8V if B + C are ON then output = 4.4V

E6DIM: Input IN1 = 0.156V   IN2 = 0.313V   IN3 = 0.625V   IN4 = 1.25V   IN5 = 2.5V   IN6 = 5V

Terminals 0.5-2.5mm² rising clamps   Min sensor / control signal cable size 7/0.2mm   Max length 100m
Screened cable is recommended   The screen should be earthed at controller end only
Keep sensor/control signal wires away from power cables/units which may cause interference.