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

E4DIM, E6DIM

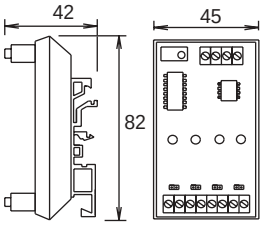
These units allow up to 4 or 6 volt free inputs to be converted into a single 0-10vdc analogue output channel which can in turn be decoded by a B.M.S controller into digital status bits.

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

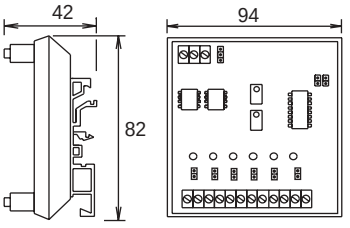
Type	Supply ±15%	Consumption Max.	Inputs 24VAC/DC 230VAC	Output Selectable	Mounting	Protection
E4DIM	24VAC/DC	50mA	4 x Volt Free Contacts	0-9vdc or 0.4-9.4vdc	Din Rail	IP00
E6DIM	24VAC/DC	60mA	6 x Volt Free Contacts	0-10vdc	Din Rail	IP00

DIMENSIONS:

E4DIM



E6DIM



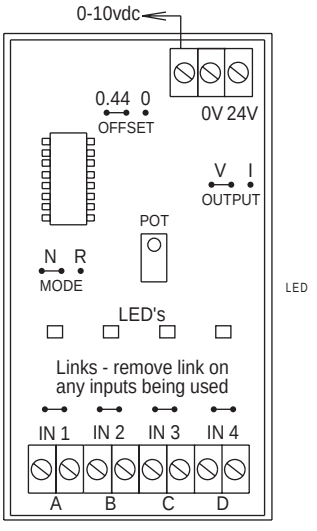
WIRING:

OUTPUT LINK:
Select V for vdc output

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

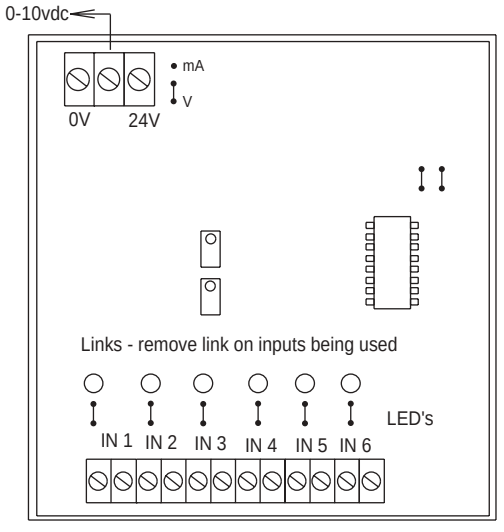
MODE LINK:
Select N for normal output

E4DIM



VOLT FREE INPUTS

E6DIM



VOLT FREE INPUTS

TREND SCALING

E4DIM

B range	-268.25
T range	268.25
Upper	268.25
Lower	0

E6DIM

B range	-253.14
T range	256
Upper	256
Lower	-253

Exponent 3

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.

CAUTION:
These devices are suitable for low voltage supply only.
Isolate device from electrical supply before removing cover.
Observe design limits of temperatures/electrical ratings.
Device should be checked by a qualified technician before applying any voltage.
Observe all relevant safety precautions, wiring/earthing regulations and electrical ratings.
Observe safety precautions for handling electrostatic sensitive devices.
Always ensure the device operates correctly. If failure of the device can cause damage a safety backup control should be fitted.
All data is for guidance purposes only, subject to change without prior notice and not guaranteed to be absolutely correct unless confirmed by us in writing.

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