



EB-003

Sensor Board Document

Contents of package

1. Sensor Board EB-003
2. Document EB00340 "Sensor Board Document"
3. Document "Warranty"

Summary – Sensor Board Description

This new Sensor Board is part of the new product range called E-Blocks. The board allows you to connect a range of digital or analogue sensors to any of the I/O ports on the E-Block 'up-stream' boards. It also allows you to use the on-board light sensor. The standard 9-way D-type connector associated with E-Blocks makes connection.

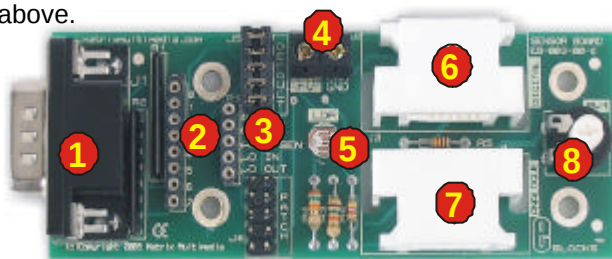
Features

- E-blocks compatible
- Low cost
- Full range of external sensor to enable plenty of different and interesting experiments
- On-board light sensor
- Downstream D-type connector
- Compatible with most I/O ports in the E-Block range
- Ease to develop programming code using Flowcode icons.

Sensor Board Layout

Important: Please note that the mode selection jumpers are orientated in the correct way – i.e. with the metal connect strips HORIZONTAL as shown in the picture above.

1. 9 Way D-type Plug
2. Patch system
3. Link blocks
4. Screw Terminals
5. Light sensor
6. External digital sensor
7. External analogue sensor
8. Potentiometer – for simulating varying analogue voltage



The following table shows the pin connections for 'DEFAULT' jumper settings.

Function	Mapping to bit of D-Type
LDR	Bit 0
RV1 (Variable analogue voltage)	Bit 1
Analogue Sensor	Bit 3
Digital Sensor IN	Bit 4
Digital Sensor OUT	Bit 2

The Patch system allows the user to set these function signals to any of the 8 available bits of the D-type connector. For more information see Section 4 – Circuit Description on the Datasheet for this product

Where to find more information

On the ELSAM CD, which is provided with all 'upstream' devices (i.e. Multiprogrammer), is the relevant information for this and other E-Blocks product. The E-Blocks directory also includes the following documents: -

- Installation guide.doc
- Getting started with E-Blocks.pdf
- Datasheets
- User test routines

For full up-to-date datasheets, documentation, F.A.Q.s and software updates please visit

www.matrixmultimedia.com/eblocks

Using the following user name and password

User name: eblocks

Password: halifax

You will now have access to up-to-date information that you require.