

Instructions for using the Switch kit with the Timing ramp

The 3841 and 2341 Switch kits are designed for use with the Timing ramp (3842). A kit contains:

- Two magnetic proximity switches that fit into the holes in the ramp.
- A magnet which attaches to the car using the sticky pads supplied.

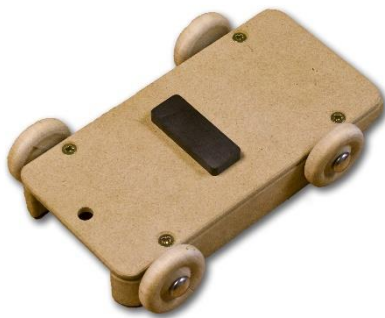
The **3841** Switch kit has mini din plugs for use with a data logger that will accept two digital Smart Q sensors e.g. EasySense Q3+, VISION, V-Log or V-Hub.

*Note: As two inputs are required this kit is **not** suitable for use with EasySense 1Link.*

The **2341** Switch kit has jack plugs and is suitable for use with the Vu or Vu+ logger.

The switches will detect the magnet /car as it travels down the ramp.

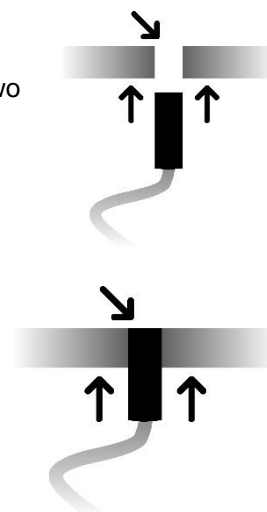
- Assemble the Timing ramp according to its instruction leaflet.



- Attach the magnet to the underside of the car using the sticky pads, so that the length of the magnet is across the width of the car.

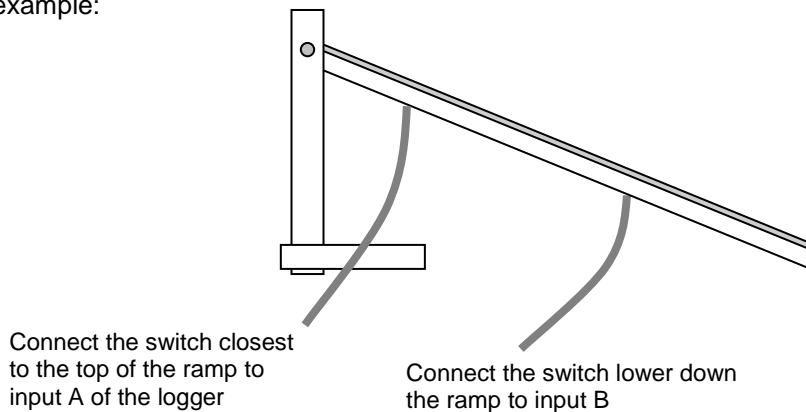
- From the **underside** of the ramp, push a switch into each of the two holes in the ramp surface.

- Make sure the switch is flush with the upper surface of the ramp



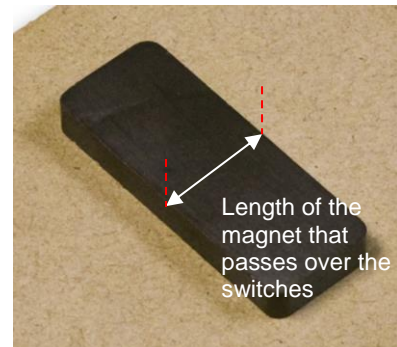
- Connect the switch that will be used first for timing to the input labelled A on the data logger.
- Connect the switch used second to input B on the data logger.

For example:



In the EasySense software (or on the data logger), select Timing and then how you want to record the data. You can use the switches to measure:

- The **Time** the car took to travel from switch A to switch B.
- The **Speed** of the car travelling between switch A and switch B (enter the distance between the two switches as the parameter e.g. 0.5 m).
- The car's **Acceleration** as it travels from A to B (enter the length of the magnet that will pass over the switches as the parameter e.g. 19 mm).



Limited warranty

For information about the terms of the product warranty, see the Data Harvest website at: <https://data-harvest.co.uk/warranty>.



WEEE (**W**aste **E**lectrical and **E**lectronic **E**quipment) Legislation

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