



Timer Switch

Model No. ME-9819



TIMER SWITCH

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*Use Replacement Model Numbers to expedite replacement orders.

Additional Equipment Suggested (for experiments)	
Time of Flight Accessory	ME-6810
Shoot the Target Accessory	ME-6805
Smart Timer	ME-8930
Science Workshop 500 Interface	CI-6400
Science Workshop 750 Interface	CI-6450

Introduction

PASCO's Timer Switch was designed for use in the Discover Freefall System (ME-9820), however it can also be used with the drop box from the Shoot-the-Target Accessory (ME-6805). In general, the switch can be used to signal the beginning of an event through each of its plugs.

Basic Operating Procedure

Discover Freefall System

When used with the Discover Freefall System, one of the Timer Switch plugs is connected to the drop box and the other to either the Smart Timer (ME-8930) or a computer interface. When the button is pushed, a signal is sent simultaneously to the drop box and Smart Timer/Interface. This causes timing to begin at the same instant the object is released from the drop box.



Freefall with Motion Sensor

Another application involves using the Timer Switch and drop box to release an object over a motion sensor. Frequently, the release of an object over a motion sensor is critical for quality data collection. Simply plug one of the Timer Switch cables into the drop box, hang the object from the box, and push the button on the switch for a clean, repeatable release. In this case, one of the plugs from the switch is not used.



Two Objects in Freefall

Two objects can also be released simultaneously by using the Timer Switch with two drop boxes as described above. In this case, one plug is inserted into each of the drop boxes before releasing the objects.

