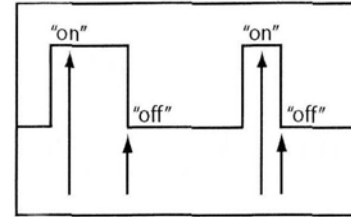




Log:  
**U9-001: State**  
**U9-002: Light On/Off**  
**U9-004: Motor On/Off**



Time →

U9 Loggers record time and duration of state changes, light on/off or motor on/off

## HOBO® U9 State & Light/Motor On/Off Loggers

**HOBO State loggers monitor and record State changes or Light or Motor On/Off status. The HOBO U9 loggers large memory records up to 43K State changes or On/Off cycles, and the easy-to-use HOBOWare software provides statistical data such as total % time closed/on and total % time open/off.**

**The loggers USB interface enables fast data download.**

Nb: For more demanding applications the HOBO U11 logs 3-State + 1-Event in a single logger

### HOBO U9 Family Features and Specifications

Operating Range: -20° to +70°C (0 to 95%RH)  
 Memory: 26K to 43K time-stamped state changes  
 Programmable Start time/date or Push-button start  
 Blinking LED indicates current state  
 Time accuracy approx. ±1 min/month at 25°C  
 Battery level indication at launch  
 Battery level can be recorded as separate channel  
 User replaceable CR2032 battery (typical 1 year life)  
 Numerous event types: Button push/release, host PC connection, low battery – stored to data file asynchronously during logging  
 Size: 58 x 74 x 22mm Weight: 50g

#### U9-001 State Logger

Monitors when doors are open/closed using internal magnetic reed switch and external magnet.  
 External input cable included to monitor contact closures of remote devices or presence of positive DC voltages up to 15V. The State Logger may be used with CSV-A8 Current Switch.

Spacing between magnet/logger:  
 Open ≥ 0.75 inches Closed ≤ 0.25 inches  
 Contact closure resistance:  
 Open > 300K Ohm Closed < 15K Ohm

#### U9-002 Light On/Off Logger

The light intensity threshold monitored is adjustable from approximately 10 to 100 lumens/m<sup>2</sup> (fluorescent

light). The HOBO's light sensitivity is peaked in the forward direction and can be taken advantage of to minimize the effect of other light sources when trying to determine the on/off state of a particular light source. Light threshold adjustment range: 10 to 100 lumens/m<sup>2</sup> (fluorescent) at room temperature. The sensors sensitivity to incandescent light is approx 10 times greater.

#### U9-004 Motor On/Off Logger

The logger must be mounted very close to (ideally directly on) the field source, as magnetic field intensities fall off rapidly with increasing distance from their source (motor, transformer, or even a single wire carrying a large AC current). The logger should be mounted on or close to the motor housing or to one phase of the power line to the equipment being monitored.

AC magnetic field threshold: 750Gauss at 60 Hz (depending on distance and orientation)

#### **Order Information**

HOBO U9 State (with cable/magnet)	<b>Part No</b> U9-001
HOBO U9 Light on/off	U9-002
HOBO U9 Motor on/off	U9-004
AC Current Switch	CSV-A8
HOBOWare PRO Software for Windows/MAC	BHW-PRO-CD



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