

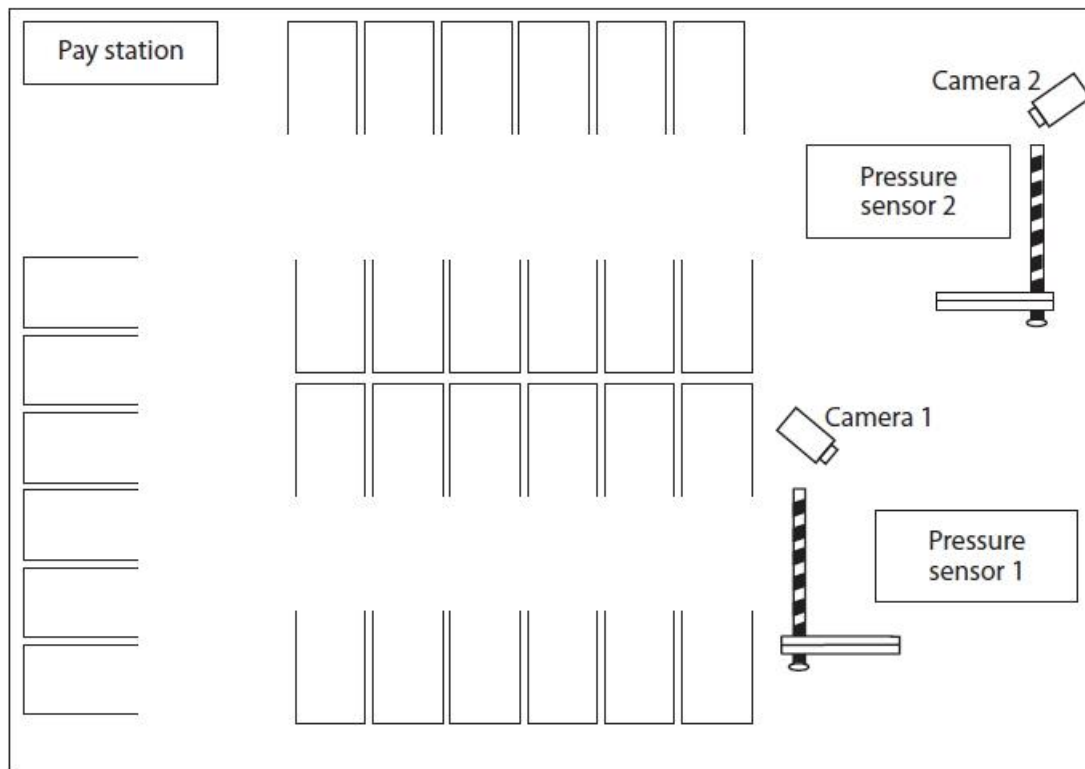
## Car park Hardware Q

### Scenario:

A car park has introduced a computer-controlled barrier and payment system.

**Figure 1** is a diagram of the car park showing the placement of key components of the system.

Diagram is not to scale.



**Figure 1**

**Figure 2** shows some of the specifications of the system.

Parking System Specifications
<p>Pressure sensor 1 detects when a car approaches the barrier to enter.</p> <p>Camera 1 takes a picture of the car's number plate.</p> <p>The system uses character recognition to read the number plate and stores this and the time the car enters for later use.</p> <p>Drivers have to pay at the pay station before going to their car and leaving.</p> <p>At the pay station:</p> <ul style="list-style-type: none"> <li>• drivers enter their car's number plate</li> <li>• the parking system checks that the number plate the driver has entered matches a stored number plate</li> <li>• the parking system calculates the cost of parking using the time at which: <ul style="list-style-type: none"> <li>• the car entered the car park</li> <li>• the driver entered their number plate in to the pay station</li> </ul> </li> <li>• drivers pay for parking using cash or a credit/debit card</li> <li>• the parking system records the number plate as 'paid'.</li> </ul> <p>Pressure sensor 2 detects when a car approaches the barrier to leave.</p> <p>Camera 2 takes a picture of the car's number plate.</p> <p>The number plate is checked to see if the driver has paid.</p> <p>If the driver has paid the barrier opens.</p>

**Figure 2**

Q1

Explain **two additional** input devices that could be used to meet the system specifications in **Figure 2**.

(4)