

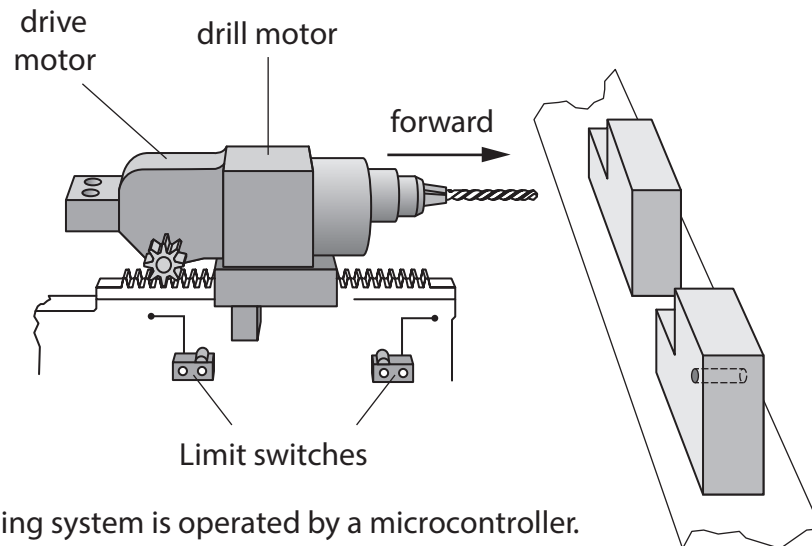
S3 Engineering Science

Programmable Control Homework

Flow Charts

Name:

Class:



An automatic drilling system is operated by a microcontroller.

Part of the control program includes a sub-procedure 'Drill' which will activate when a component is detected on the conveyor belt.

The sequence of operations for the sub-procedure 'Drill' is as follows:

- a motor will move forward until the forward limit switch is pressed;
- the motor will halt for 3 seconds;
- the motor will reverse until the back limit switch is pressed;
- the motor will stop and the sequence will return to the main program.

Input Connection	Pin	Output Connection
	7	Drive Motor forward
	6	Drive Motor backward
	5	
	4	
Back limit switch	3	
Forward limit switch	2	
	1	
	0	