Control Systems

Skills Demonstration - Task 04 - 2015

Task

Create a circuit and controlling program which functions as a speech timer circuit for conferences:

In idle mode (no one at podium), there is a red light, When a push-button is activated, a light goes green and a timer starts, After a fixed time (eg 2 minutes) the light changes to amber, After a further fixed time (eg 30 seconds) the light changes to red.

The circuit mimics a pressure plate and light combination at a podium in a conference centre. The purpose of the combination is to give a clear visual indication to the speaker of when they must finish speaking. Stepping off the pressure plate, represented by the switch, resets the timer.

Requires (list components)



Code (or reference)

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Circuit



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