Pulsed Optical Proximity Detector

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INTRODUCTION

Using a PIC12C508 to pulse an IR LED and detect the same pattern on the detector, a reliable proximity detector can be made that will reject ambient light effects. This can be used on an assembly line as a sensor.

GP2 must match GP3 both high and low to ensure proper operation.

Present and absent work as Q and $\overline{Q}$ for equipment flexibility.

FIGURE 1: FLOWCHART

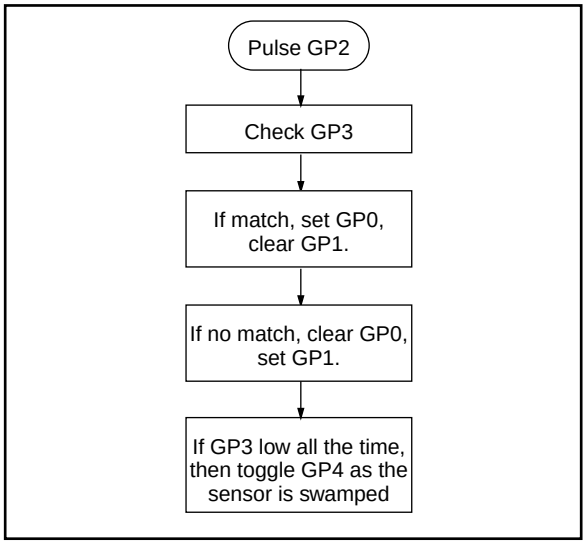

FIGURE 2: SCHEMATIC