



The Ultimate Training Tool for Nationally Popular Robotics Competitions and Systems. ©2017 and Patent Pending Marco Ciavolino and Enktesis, LLC, sales@robotmats.com. Unauthorized duplication or production prohibited
Robot Mats, 1603 Belvue Drive / Forest Hill, MD 21050-2508 / 410-838-8264

Mat Type: General Practice / GPM004

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Mission Title: Basic Line Counting

Suggested Prerequisites: GMP001

Sensors: Light Sensor/Color Sensor

Mission Goals

Add a field level light sensor to your basic robot. Place the robot on the horizontal bar in quadrant 1E and drive across the equally spaced black lines found in quadrants 3D-14F. First have the robot count the bars and return so you'll need to measure the distance out and back. You'll do this by recording the changes in contrast and adding them to a counter. As a variation, setup two counters, one that counts up and keeps the value and one that counts up and then subtracts back to 0. To make it repeatable, be sure to reset your values each time the program runs.

Mission Participants

Date Completed ___/___/___

Record Your Steps Below

STEP	Task	Notes
1.		
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STEP	Task	Notes
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