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[\[KEMBALI KE MENU SEBELUMNYA\]](https://fakran231005.blogspot.com/2026/03/modul-1.html)

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font-family: Roboto, sans-serif; font-size: 15px; text-align: center;"><b style="font-weight: bold;">KONTROL LAMPU LORONG</b></p><p style="background-color: white; font-family: Roboto, sans-serif; font-size: 15px;"><b style="font-weight: bold;"><span style="font-family: &quot;Josefin Sans&quot;; font-size: medium;"><span style="color: #2b00fe;"><a href="https://www.blogger.com/null" name="prosedur" style="background: transparent; text-decoration-line: none;">1. Prosedur&nbsp;</a><a href="https://fakran231005.blogspot.com/2026/03/modul-1.html#" style="background: transparent; text-decoration-line: none;">[Kembali]</a></span></span></b></p><p id="prosedur" style="background-color: white; color: #201f20; font-family: Roboto, sans-serif; font-size: 15px;"></p><ol style="background-color: white; color: #201f20; font-family: Roboto, sans-serif; font-size: 15px;"><li><span style="font-family: times;">Buka software proteus lalu rangkai komponen sesuai dengan gambar yang ada di modul</span></li><li><span style="font-family: times;">Buka software STM32CubeIDE lalu lakukan konfigurasi pin pada STM untuk menentukan GPIO input dan GPIO output</span></li><li><span style="font-family: times;">Masukan Program ke dalam software STM32CubeIDE lalu build untuk mendapatkan file .hex</span></li><li><span style="font-family: times;">Masukan file .hex ke dalam file library&nbsp;STM32F103C8 pada proteus</span></li><li><span style="font-family: times;">Simulasikan rangkaian</span></li></ol><p style="background-color: white; color: #201f20; font-family: Roboto, sans-serif; font-size: 15px;"></p><p style="background-color: white; font-family: Roboto, sans-serif; font-size: 15px;"><b style="font-weight: bold;"><span style="font-family: &quot;Josefin Sans&quot;; font-size: medium;"><span style="color: #2b00fe;"><a href="https://www.blogger.com/null" name="hardware" style="background: transparent; text-decoration-line: none;">2. Hardware dan Diagram Blok&nbsp;</a><a href="https://fakran231005.blogspot.com/2026/03/modul-1.html#" style="background: transparent; text-decoration-line: none;">[Kembali]</a></span></span></b></p><div style="background-color: white; color: #757575; font-family: Roboto, sans-serif; font-size: 15px;">STM32F103C8</div><p style="background-color: white; color: #757575; font-family: Roboto, sans-serif; font-size: 15px;"><b style="font-weight: bold;"></b></p><div style="background-color: white; color: #757575; font-family: Roboto, sans-serif; font-size: 15px;"><div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/a/AVvXsEi5uak9OPz35YnoYXWlRndQ84BDxeKDNYSKYns2huxgJrw\_SL9Fa3xlEekKaV5Mtb1ZO7e2AGM\_PVxfQGvnN2\_NSP0u2ArCZjdfqSQiu2Vmtn3kpIG\_4Q\_EvJCohO942TtRI6rNI62T4d4gB0qcQtQq3JZp3JNPmEzQAdgz-0892IlkKEVT5eD831HXg" style="background: transparent; color: #2196f3; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a></div></div><p style="background-color: white; color: #757575; font-family: Roboto, sans-serif; font-size: 15px; text-align: center;"></p><p style="background-color: white; color: #201f20; font-family: Roboto, sans-serif; font-size:

15px;"><b style="font-weight: bold;"><br style="color: #757575; font-weight: 400;"  
/></b></p><div style="background-color: white; color: #757575; font-family: Roboto,  
sans-serif; font-size: 15px;">Touch Sensor</div><div style="background-color: white;  
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margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a></div><div class="separator" style="clear: both; text-align:  
center;"><br /></div><div class="separator" style="clear: both; text-align: center;"><div  
style="text-align: start;"><br />PIR Sensor</div><div style="text-align: start;"><div  
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margin-right: 1em; outline: 0px; text-decoration-line: none;"></a></div><div class="separator" style="clear: both; text-align: center;"><br  
/></div><div class="separator" style="clear: both; text-align: center;"><div  
style="text-align: start;">LED</div><div style="text-align: start;"><div class="separator"  
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center;"><br /></div><div class="separator" style="clear: both; text-align: center;"><div  
style="text-align: start;">Buzzer</div><div style="text-align: start;"><div

class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/a/AVvXsEhhg2J-LSCUpXqTICwHVmxAN\_mt04VT71T-DZ8uYzzpvM1oU1JBAIAJZ\_5kgHbHBto2gK59V9P90vwl6kmWlarbFCFJA9uoBQRKGPPEXsJcroPtTKwhMPWol5Q6tYMLpGGU4ErtOqSTdabhtRLhutDfUFJxWFpVY2pqnQS1MEYlnkOAa6XZUYWMf4x27Q" style="background: transparent; color: #2196f3; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a></div><div class="separator" style="clear: both; text-align: center;"><br /></div><div class="separator" style="clear: both; text-align: center;"><div style="text-align: start;">Resistor</div><div style="text-align: start;"><div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/a/AVvXsEjqX9\_uKZQStwxGYFV2rUjLGBtyl6TNNXI7RHbBrq2GJN2CU3PZsIDW7kQylqsAz\_TuPv7eGSdJUZ\_NBrffkCuYa7pspygTzedQir-7peqbsogQ2C3rZSjtM1W7q5SH3zYNXlirPvYZBS-rDZxmpnAh\_w8mnKlIgi4COEAeEM1lIFiCr1Z0P60L9w88xw" style="background: transparent; color: #2196f3; margin-left: 1em; margin-right: 1em; outline: 0px; text-decoration-line: none;"></a></div><div class="separator" style="clear: both; text-align: center;"><br /></div></div></div></div></div></div></div></div></div><div style="background-color: white; color: #757575; font-family: Roboto, sans-serif; font-size: 15px;"><br /></div><p style="background-color: white; color: #201f20; font-family: Roboto, sans-serif; font-size: 15px;"><b style="font-weight: bold;"></b></p><div class="separator" style="background-color: white; clear: both; color: #757575; font-family: Roboto, sans-serif; font-size: 15px; text-align: center;"><a href="https://blogger.googleusercontent.com/img/a/AVvXsEjpJib-4yL50Eieecni1HLoKGXQB1zEHL675r4V\_wZPrzwVScMWtXp6KVPWTS3Gm-5JEPn0ra3W\_DmGNODqLpLht0JgVAWtSlD0D0gy6FTeAmspGLvqh-B6b\_mii1PYwutbqXfaJYAZFf8N9Jq\_Ey18qs0bTGfFhFDcly03VyrCLugBo\_jjvdcb9LtXgQ" style="background: transparent; color: #2196f3; margin-left: 1em; margin-right: 1em; outline: 0px; text-decoration-line: none;"></a></div><p style="background-color: white; color: #201f20; font-family: Roboto, sans-serif; font-size: 15px; text-align: center;"></p><br style="background-color: white; color: #201f20; font-family: Roboto,

sans-serif; font-size: 15px;" /><br style="background-color: white; color: #201f20; font-family: Roboto, sans-serif; font-size: 15px;" /><p style="background-color: white; font-family: Roboto, sans-serif; font-size: 15px;"><b style="font-weight: bold;"><span style="font-family: &quot;Josefin Sans&quot;; font-size: medium;"><a href="https://www.blogger.com/null" name="rangkaian" style="background: transparent; text-decoration-line: none;"><span style="color: #2b00fe;">3</span></a><span style="color: #2b00fe;"><a href="https://www.blogger.com/null" name="rangkaian" style="background: transparent; text-decoration-line: none;">. Rangkaian Simulasi dan Prinsip Kerja&nbsp;</a><a href="https://fakran231005.blogspot.com/2026/03/modul-1.html#" style="background: transparent; text-decoration-line: none;">[Kembali]</a></span></span></b></p><p data-path-to-node="1" style="background-color: white; color: #201f20; font-family: Roboto, sans-serif; font-size: 15px; text-align: justify;"><br /></p><p data-path-to-node="1" style="background-color: white; color: #201f20; font-family: Roboto, sans-serif; font-size: 15px; text-align: justify;"></p><div class="separator" style="background-color: white; clear: both; color: #201f20; font-family: Roboto, sans-serif; font-size: 15px; text-align: center;"><div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/a/AVvXsEiCNxvR8rJqRkqJNEHhryk\_KdTUEiDce198cN8xXDduWSDChBb3NDO1J7sj3ht76b-VtLSqCPLj-yc-NHVptLBc4BeFkc4feEr8hj n1Wf103T33-cTV0dXg\_oaJefrqtSisg17XNci5ar9WKW9nD1tKFNIwsxXxd2e4Ci29vMiXRGXBeU\_rCvz3h2kZ6Kq" style="margin-left: 1em; margin-right: 1em;"></a></div><br /></div><br style="background-color: white; color: #201f20; font-family: Roboto, sans-serif; font-size: 15px;" /><br style="background-color: white; color: #201f20; font-family: Roboto, sans-serif; font-size: 15px;" /><p style="background-color: white; color: #201f20; font-family: Roboto, sans-serif; font-size: 15px;"></p><p data-path-to-node="1">Sistem kontrol lampu lorong otomatis ini bekerja dengan mengintegrasikan sensor PIR sebagai pendeteksi aktivitas manusia dan mikrokontroler STM32F103C8 sebagai unit pemroses logika pusat. Dalam lingkungan simulasi Proteus, operasional sistem dipantau melalui indikator warna pada jalur sinyal, di mana warna <b data-index-in-node="308" data-path-to-node="1">merah</b> merepresentasikan logika <b data-index-in-node="339" data-path-to-node="1">HIGH</b> (tegangan aktif) dan warna <b data-index-in-node="371" data-path-to-node="1">biru</b> merepresentasikan logika <b data-index-in-node="401" data-path-to-node="1">LOW</b> (ground). Ketika sensor PIR pada pin <b data-index-in-node="442" data-path-to-node="1">PA0</b> menangkap radiasi inframerah dari gerakan, ia akan mengeluarkan sinyal biner HIGH yang dibaca oleh mikrokontroler untuk mengaktifkan LED pada pin <b data-index-in-node="592" data-path-to-node="1">PB0</b> dan buzzer pada pin <b data-index-in-node="616" data-path-to-node="1">PB1</b>, sekaligus memicu mekanisme <i data-index-in-node="648" data-path-to-node="1">retriggerable timer</i>. Mekanisme ini dirancang agar setiap kali terdapat deteksi gerakan baru sebelum durasi waktu tunda

(*data-index-in-node="768" data-path-to-node="1">delay</i> berakhir, mikrokontroler akan secara otomatis mereset perhitungan waktu kembali ke titik awal, sehingga LED tetap menyala stabil.*

Dalam skenario khusus di mana gerakan terjadi secara berulang sementara sensor *data-index-in-node="79" data-path-to-node="2">touch</i> pada pin ***data-index-in-node="94" data-path-to-node="2">PA1</i>*** tetap berada pada kondisi LOW atau tidak aktif, sistem akan terjebak dalam siklus reset *data-index-in-node="186" data-path-to-node="2">timer</i> yang kontinu. Hal ini menyebabkan variabel waktu tunda di dalam program tidak pernah mencapai nilai batas (*data-index-in-node="299" data-path-to-node="2">threshold</i>) yang ditentukan untuk memberikan perintah pemadaman karena kendali sepenuhnya didominasi oleh umpan balik dari sensor PIR. Akibatnya, LED sebagai aktuator pencahayaan akan tetap berada pada kondisi menyala konstan selama area lorong terdeteksi masih memiliki aktivitas manusia. Transisi LED dari kondisi aktif ke non-aktif hanya akan terjadi apabila sensor PIR tidak lagi mendeteksi pergerakan sama sekali, yang memungkinkan mikrokontroler menyelesaikan perhitungan durasi *data-index-in-node="783" data-path-to-node="2">delay</i> secara utuh tanpa adanya gangguan reset sinyal, sehingga memastikan efisiensi penggunaan energi saat ruangan benar-benar kosong.****

<b style="font-weight: bold;"><span style="font-family: 'Josefin Sans'; font-size: medium;"><span style="color: #2b00fe;"><a href="https://www.blogger.com/null" name="flowchart" style="background: transparent; text-decoration-line: none;">4. Flowchart dan Listing Program</a><a href="https://fakran231005.blogspot.com/2026/03/modul-1.html#" style="background: transparent; text-decoration-line: none;">[Kembali]</a></span></span></b></p><div style="background-color: white;"><div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEh3tySMUp3uZ38kUmWOYJ8MNVrvOQ\_vYZRThh62y-ePnQuYXaaCKm14brD1mM1vHZldfCs1puhUtXZspyaJK9E6pqEIYttSRekol5vgX4rT\_R3E6hx1sVrwRQqMCf8j-ul-aj1YkU4XcJxKiV5RiM\_1uydLEwOWmHFUQiPeBLhw\_eU6Z6O-raeoKT38UAFK/s4532/mermaid-diagram.png" style="margin-left: 1em; margin-right: 1em;"></a></div><div class="separator" style="background-color: white; clear: both; color: #201f20; font-family: Roboto, sans-serif; font-size: 15px; text-align: center;"><span style="margin-left: 1em; margin-right: 1em;"><div class="separator" style="background: transparent; clear: both; color: #1784f2; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"><br /></div></span></div><div class="separator" style="background-color: white; clear: both; color: #201f20; font-family: Roboto, sans-serif; font-size: 15px; text-align: center;"><span style="color: #0000ee;"><u><br /></u></span></div><b style="background-color: white; font-family:

Roboto, sans-serif; font-size: 15px; font-weight: bold;"><span style="font-family: &quot;Josefin Sans&quot;; font-size: medium;"><span style="color: #2b00fe;"><a href="https://www.blogger.com/null" name="demo" style="background: transparent; text-decoration-line: none;">5. Video Demo</a><a href="https://fakran231005.blogspot.com/2026/03/modul-1.html#" style="background: transparent; text-decoration-line: none;">&nbsp;<[Kembali]</a></span></span></b><p style="background-color: white; color: #201f20; font-family: Roboto, sans-serif; font-size: 15px;"></p><p style="background-color: white; color: #201f20; font-family: Roboto, sans-serif; font-size: 15px;"><br /></p><div style="background-color: white; color: #201f20; font-family: Roboto, sans-serif; font-size: 15px;"><span style="font-family: times;"><span face="sans-serif" style="color: #222222;"></span></span></div><p style="background-color: white; color: #201f20; font-family: Roboto, sans-serif; font-size: 15px;"></p><p style="background-color: white; font-family: Roboto, sans-serif; font-size: 15px; text-align: justify;"><b style="font-weight: bold; text-align: left;"><span style="font-family: &quot;Josefin Sans&quot;; font-size: medium;"><span style="color: #2b00fe;"><a href="https://www.blogger.com/null" name="kondisi" style="background: transparent; text-decoration-line: none;">6. Kondisi</a><a href="https://fakran231005.blogspot.com/2026/03/modul-1.html#" style="background: transparent; text-decoration-line: none;">&nbsp;<[Kembali]</a></span></span></b></p><p style="background-color: white; text-align: left;"><span style="color: #201f20; font-family: times;"><span style="font-size: 15px;">Buatlah rangkaian seperti pada gambar percobaan 1 dengan kondisi ketika sensor PIR mendeteksi gerakan kemudian tidak ada gerakan lanjutan selama waktu tertentu, maka LED tetap menyala selama delay yang ditentukan dan kemudian mati secara otomatis, sedangkan buzzer hanya berbunyi saat awal deteksi.</span></span></p><div style="background-color: white; font-family: Roboto, sans-serif; font-size: 15px;"><p style="text-align: justify;"><b style="font-weight: bold; text-align: left;"><span style="font-family: &quot;Josefin Sans&quot;; font-size: medium;"><span style="color: #2b00fe;"><a href="https://www.blogger.com/null" name="simulasi" style="background: transparent; text-decoration-line: none;">7. Video Simulasi</a><a href="https://fakran231005.blogspot.com/2026/03/modul-1.html#" style="background: transparent; text-decoration-line: none;">&nbsp;<[Kembali]</a></span></span><a href="https://fakran231005.blogspot.com/2026/03/modul-1.html#" style="background: transparent; text-decoration-line: none;"><span style="color: #2b00fe;">]</span></a></span></b></p><p style="color: #201f20; text-align: justify;"><b style="font-weight: bold; text-align: left;"><br /></b></p><p style="color: #201f20; text-align: justify;"></p><div class="separator" style="clear: both; color: #201f20; text-align: center;"><br /></div><div class="separator" style="clear: both; text-align: center;"><object class="BLOG\_video\_class" contentid="493f603e2668b009" height="266" id="BLOG\_video-493f603e2668b009" width="320"></object></div><br /><b style="color: #201f20; font-weight: bold;"><br /></b><p style="color: #201f20;"></p><p style="color: #201f20;"><br /></p><span style="color: #201f20;"><span style="font-family: &quot;Josefin Sans&quot;; font-size: medium;"></span></span><p style="color: #201f20;"></p><p style="color: #201f20; text-align: justify;"></p><p style="text-align: justify;"><b style="font-weight: bold;

text-align: left;"><span style="font-family: &quot;Josefin Sans&quot;; font-size: medium;"><span style="color: #2b00fe;"><a href="https://www.blogger.com/null" name="download" style="background: transparent; text-decoration-line: none;">8. Download File</a><a href="https://fakran231005.blogspot.com/2026/03/modul-1.htmltugas-pondahuluan-1.html#" style="background: transparent; text-decoration-line: none;">&nbsp;<[Kembali]</a></span></span></b></p><p style="color: #201f20; text-align: justify;"><b style="font-weight: bold; text-align: left;"></b></p><ul><li><span style="text-align: center;"><span style="font-family: times;"><span style="color: #201f20;">Download file lengkap (Rangkaian dan Program)&nbsp;</span><a href="https://drive.google.com/file/d/1h8jJ8M-x338KpfGrUiVPHnKlCBYStdz/view?usp=sharing" style="background: transparent; color: #1784f2; text-decoration-line: none;" target="\_blank">(klik disini)</a><span style="color: #201f20;">&nbsp;</span><span style="color: #3d85c6;"><a href="#">(klik disini)</a></span></span></li><li style="color: #201f20;"><span style="text-align: center;"><span style="font-family: times;">Download Datasheet Touch Sensor&nbsp;<a href="https://drive.google.com/uc?export=download&amp;id=1NgX1wmDz8xZb1l15zJ9MtdVn0sSc-AX4" style="background: transparent; color: #1784f2; text-decoration-line: none;">(klik disini)</a></span></li><li style="color: #201f20;"><span style="font-family: times;">Download Datasheet Pir Sensor&nbsp;<a href="https://drive.google.com/uc?export=download&amp;id=1kKblbqV52nqlvS5dljR-t-gON0pzyJkq" style="background: transparent; color: #1784f2; text-decoration-line: none;">(klik disini)</a></span></li><li style="color: #201f20;"><span style="text-align: justify;"><span style="border: 0px; box-sizing: border-box; content: &quot;[&quot;; font-stretch: inherit; font-variant-east-asian: inherit; font-variant-numeric: inherit; left: -0.1em; line-height: inherit; margin: 0px; padding: 0px; text-align: center; transform: translateX(-100%); transition: color 0.2s; vertical-align: baseline;"><span style="font-family: times;">Download Datasheet Resistor&nbsp;<a href="https://drive.google.com/uc?export=download&amp;id=1YVGy5CHt-BUBztiZGF0DR\_yP\_D0f8Wa" style="background: transparent; color: #1784f2; text-decoration-line: none;">(klik disini)</a></span></span></li><li style="color: #201f20;"><span style="text-align: justify;"><span style="border: 0px; box-sizing: border-box; content: &quot;[&quot;; font-stretch: inherit; font-variant-east-asian: inherit; font-variant-numeric: inherit; left: -0.1em; line-height: inherit; margin: 0px; padding: 0px; text-align: center; transform: translateX(-100%); transition: color 0.2s; vertical-align: baseline;"><span style="font-family: times;">Download Datasheet LED&nbsp;<a href="https://drive.google.com/uc?export=download&amp;id=1RCyRNM6UU9T6eogFF4-NXEIsCVo3M9Ey" style="background: transparent; color: #1784f2; text-decoration-line: none;">(klik disini)</a></span></span></li><li style="color: #201f20;"><span style="text-align: justify;"><span style="border: 0px; box-sizing: border-box; content: &quot;[&quot;; font-stretch: inherit; font-variant-east-asian: inherit; font-variant-numeric: inherit; left: -0.1em; line-height: inherit; margin: 0px; padding: 0px; text-align: center; transform: translateX(-100%); transition: color 0.2s; vertical-align: baseline;"><span style="font-family: times;">Download Datasheet Buzzer&nbsp;<a href="https://drive.google.com/file/d/1XqYEL3NtXP9cMTfnn8EjchxEAnhmPuoa/view?usp=sharing" style="background: transparent; color: #1784f2; text-decoration-line:

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<div style="color: #00FFFF;"><a href="#">klik disini</a></div><div style="color: #FFA500; text-align: center;">br /></div><div style="color: #8B4513; text-align: center;">br /></div><div style="color: #696969; text-align: center;">br /></div><div style="color: #C71585; text-align: center;">br /></div><div style="color: #FA8072; text-align: center;">br /></div><div style="color: #D2B48C; text-align: center;">br /></div></div>
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