

```
<div><br /></div><a name="home">
```

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</a>
```

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<br />
```

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<div style="text-align: center;">
```

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<a
```

```
href="https://taufik212027.blogspot.com/2022/03/bahan-presentasi-matakuliah-oleh-taufik.html">[KE  
MBALI KE MENU SEBELUMNYA]</a></div>
```

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<br />
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<center>
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```
<div style="background-color: white; border: 2px dashed rgb(23, 128, 221); height: 240px; overflow:  
auto; padding: 10px; text-align: center; width: 330px;">
```

```
<b>DAFTAR ISI</b>
```

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<br />
```

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<div style="text-align: left;">
```

```
<a href="#tujuan">1. Tujuan</a></div>
```

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<div style="text-align: left;">
```

```
<a href="#alat dan bahan">2. Alat dan Bahan</a></div>
```

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<div style="text-align: left;">
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```
<a href="#dasar teori">3. Dasar Teori</a></div>
```

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<div style="text-align: left;">
```

```
<a href="#prinsip kerja">4. Percobaan</a></div>
```

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<div style="text-align: left;">
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```
<a href="#link download">5. File Download </a></div>
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<div style="text-align: left;">
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```
<a href="#"></a></div>
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</div>
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</center>
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[1. Tujuan](#)
 [Kembali]

- Mengetahui fungsi komponen yang digunakan.
- Mengetahui prinsip kerja LM35.
- Mengetahui prinsip kerja sensor cahaya (LDR)
- Mengetahui prinsip kerja sensor hujan
- Membuat rangkaian aplikasi "Sun Tracker" pada aplikasi Proteus.

[2. Alat dan Bahan](#)
 [Kembali]

Alat
 Instrument

Baterai

justify;">
</div><div style="text-align: justify;">Fungsi: Meyediakan atau menyuplai energi listrik listrik</div><div>
</div></div><div class="separator" style="clear: both; font-size: medium; text-align: center;">
</div><div class="separator" style="clear: both; font-size: medium; text-align: center;"></div><div class="separator" style="clear: both; font-size: medium; text-align: center;">
</div><div class="separator" style="clear: both; font-size: medium; text-align: justify;">Spesifikasi:</div><div class="separator" style="clear: both; font-size: medium; text-align: center;">
</div><div class="separator" style="clear: both; font-size: medium; text-align: center;"><ul style="background-color: black; color: white; font-family: times; line-height: 1.4; margin: 0.5em 0px; padding: 0px 2.5em; text-align: start;"><li style="margin: 0px 0px 0.25em; padding: 0px;">Input voltage: ac 100~240v / dc 10~30v<li style="margin: 0px 0px 0.25em; padding: 0px;">Output voltage: dc 1~35v<li style="margin: 0px 0px 0.25em; padding: 0px;">Max. Input current: dc 14a<li style="margin: 0px 0px 0.25em; padding: 0px;">Charging current: 0.1~10a<li style="margin: 0px 0px 0.25em; padding: 0px;">Discharging current: 0.1~1.0a<li style="margin: 0px 0px 0.25em; padding: 0px;">Balance current: 1.5a/cell max<li style="margin: 0px 0px 0.25em; padding: 0px;">Max. Discharging power: 15w<li style="margin: 0px 0px 0.25em; padding: 0px;">Max. Charging power: ac 100w / dc 250w<li style="margin: 0px 0px 0.25em; padding: 0px;">Jenis batre yg didukung: life, lilon, lipo 1~6s, lihv 1-6s, pb 1-12s, nimh, cd 1-16s<li style="margin: 0px 0px 0.25em; padding: 0px;">Ukuran: 126x115x49mm<li style="margin: 0px 0px 0.25em; padding: 0px;">Berat: 460g</div><div class="separator" style="clear: both; font-size: medium; text-align: center;">
</div><div class="separator" style="clear: both; font-size: medium; text-align: center;">
</div><div class="separator" style="clear: both; font-size: medium; text-align: justify;">DC VOLTMETER</div><div class="separator" style="clear: both; font-size: medium; text-align: justify;">
</div><div class="separator" style="clear: both; font-size: medium; text-align: justify;">Fungsi: Mengukur besar tegangan listrik dalam besaran dan satuan tertentu</div><div class="separator" style="clear: both; font-size: medium; text-align: justify;">
</div><div class="separator" style="clear: both; font-size: medium; text-align: justify;">
</div><div class="separator" style="clear: both; font-size: medium; text-align: justify;"><div class="separator" style="clear: both; text-align: center;"></div>

</div><div class="separator" style="clear: both; font-size: medium; text-align: justify;"><div class="separator" style="background-color: white; clear: both; font-family: times; text-align: left;">Spesifikasi :</div><div class="separator" style="background-color: white; clear: both; font-family: times; text-align: left;"><li style="margin: 0px 0px 0.25em; padding: 0px;">Angka rangkuman masukan biasanya di mulai dari $\pm 1,000000$ V hingga $s/d \pm 1000,000$ V (Metode pemilihan rangkuman dilakukan dengan cara otomatis dan indikasi beban lebih).<li style="margin: 0px 0px 0.25em; padding: 0px;">Ketelitian mutlak tercatat mencapai $\pm 0,005$ persen dari pembacaan yang sudah dilakukan.<li style="margin: 0px 0px 0.25em; padding: 0px;">Angka stabilitas untuk jangka pendek sebesar 0,002 persen dari pembacaan (periode 24 jam). Sedangkan untuk jangka panjang sebesar 0,008 persen pembacaan (periode 6 bulan).<li style="margin: 0px 0px 0.25em; padding: 0px;">Resolusi untuk 1 bagian dalam 106 yaitu $1 \mu V$ bisa dibaca pada rangkuman dari masukan 1 V.<li style="margin: 0px 0px 0.25em; padding: 0px;">Karakteristik masukannya yaitu tahanan masukan khas sebesar $10 M\Omega$ dengan kapasitas masukan 40 pF.<li style="margin: 0px 0px 0.25em; padding: 0px;">Kalibrasi yang standar (internal) tidak tergantung pada rangkaian ukuran yang mana telah diperoleh dari sumber referensi yang sudah stabil.<li style="margin: 0px 0px 0.25em; padding: 0px;">Ada beberapa sinyal keluaran seperti perintah mencetak.</div></div><div class="separator" style="clear: both; font-size: medium; text-align: center;">
</div><div class="separator" style="clear: both; font-size: medium; text-align: justify;">Bahan</div><div class="separator" style="clear: both; font-size: medium; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"><div style="text-align: justify;">-Dioda</div><div style="text-align: justify;">
</div><div style="text-align: justify;">Fungsi: Sebagai penyearah arus listrik</div><div style="font-size: medium; text-align: justify;">
</div></div>

</div><div class="separator" style="clear: both; font-size: medium; text-align: justify;"></div>

style="clear: both; font-family: times; font-size: large; text-align: center;"></div><div class="separator" style="clear: both; font-family: times; font-size: large; text-align: center;">
</div><div class="separator" style="clear: both; font-family: times; font-size: large; text-align: center;">
</div><div class="separator" style="clear: both; font-family: times; font-size: large; text-align: center;">
</div><div style="background-color: black; color: white; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align: left;"><b style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"> Spesifikasi</div><div style="background-color: black; color: white; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align: left;"><ul style="border: 0px; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-stretch: inherit; font-variant-east-asian: inherit; font-variant-numeric: inherit; line-height: inherit; list-style: none; margin: 0px 0px 15px 30px; padding: 0px; vertical-align: baseline;"><li style="border: 0px; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; list-style: square; margin: 0px; padding: 0px; vertical-align: baseline;">Package Type Available in DO-41 & SMD Packages<li style="border: 0px; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-stretch: inherit;

font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; list-style: square; margin: 0px; padding: 0px; vertical-align: baseline;">Diode Type: Silicon Rectifier General Usage Diode<li style="border: 0px; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; list-style: square; margin: 0px; padding: 0px; vertical-align: baseline;">Max Repetitive Reverse Voltage is: 1000 Volts<li style="border: 0px; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; list-style: square; margin: 0px; padding: 0px; vertical-align: baseline;">Average Fwd Current: <span style="border: 0px; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: 600; line-height: inherit; margin: 0px; padding: 0px;

vertical-align: baseline;">1000mA<li style="border: 0px; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; list-style: square; margin: 0px; padding: 0px; vertical-align: baseline;">Non-repetitive Max Fwd Current: 30A<li style="border: 0px; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; list-style: square; margin: 0px; padding: 0px; vertical-align: baseline;">Max Power Dissipation is: 3W<li style="border: 0px; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; list-style: square; margin: 0px; padding: 0px; vertical-align: baseline;">Max Storage & Operating temperature Should Be: <span style="border: 0px; cursor:

url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-stretch: inherit;
font-style: inherit; font-variant: inherit; font-weight: 600; line-height: inherit; margin: 0px; padding: 0px;
vertical-align: baseline;">-55 to +175
Centigrade</div></div><div class="separator" style="clear:
both; font-family: times; font-size: large; text-align: center;">
</div><div style="text-align:
left;">-LDR (Light Dependent
Resistor)</div><div style="font-family: "Times New Roman";
text-align: justify;"><span
lang="id">
</div><div style="font-family: "Times New Roman";
text-align: justify;">Fungsi: Sebagai detektor cahaya
atau besaran konversi cahaya</div><div style="font-family: "Times New Roman";
text-align: justify;"><span face="arial, sans-serif" style="background-color: white; color: #4d5156;
text-align: left;"> <div class="separator" style="clear:
both; font-size: 14px; text-align: center;"><a
href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjNOZ9lr5qhPEEaQpu96R4UCI1N_
7ed5Q_iu65o2wfCITL7VI8alqMf_dJYbvvdDjtb7QfHM-dD6_P9syklVCyjaWSiCUnQekqeSihy8iA5Dwb-JGIYR_
xLJFY_dIHtjzUDZoK4paymoDpo1PdP6X7Uz2yiyXsqxR8Q7GGUjiiwm1cwQivmMQ9pRwt2Ig/s275/downlo
ad%20(1).jpg" style="margin-left: 1em; margin-right: 1em;"></div><div class="separator" style="clear: both; text-align:
justify;">
</div><div class="separator" style="clear: both; text-align: justify;">
</div><div
class="separator" style="clear: both; text-align: justify;">Spesifikasi:</div><div class="separator"
style="clear: both; text-align: justify;">
</div><div class="separator" style="clear: both; text-align:
center;"><a
href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjEMIIBk-t1k1rNbwnRo8hKNA-rhO
bTVvk5laCEZhE3hOfbiySitTK9_1PUSlrtHpNNZ1rOILGR5MoGKielkP-jYwVzI7C8qbLYaqR-C37PaPMrm-PEjl4F
nT5IHvCo2VJV7tU920hDof7PML8qaj8or1Q0VBwKa9TAzPmu67sRxxv2Vt3VunKkQh4K86Q/s400/spek%20l
dr.PNG" style="margin-left: 1em; margin-right: 1em;"></div>
<div class="separator" style="clear: both; font-size: 14px;
text-align: center;">
</div><div class="separator" style="clear: both; font-size: 14px; text-align:
center;">
</div>
</div></div><div style="text-align: left;"><span style="font-size:
medium;">-LED</div><div style="text-align: justify;"><span
style="font-family: times;">
</div><div style="text-align:
justify;">Fungsi: Sebagai indikator atau penunjuk

dalam rangkaian elektronika dan sebagai sensor infrared pada remote control</div><div class="separator" style="clear: both; font-family: times; font-size: large; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;">a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEicw9MMjW0nHsvebtC7iFUXNbF552albyMV1kA6_m-0WT4zk2EeV8CfvOno2nbT7eSeGN2JTer5DUoGrP1HwS2Y30wGT1VRoO-WUUhC2Qy9g914tREFC7zqDDHwXaZeLxb-b19GU6CxGV_SLjK4GmhdY1PO1pl06pUh_YzlzgNJqOMOKZNncORKh0M6dpQ/s268/download%20(2).jpg" style="margin-left: 1em; margin-right: 1em;"></div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"><p style="clear: both; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-family: times; font-size: large; text-align: justify;">Spesifikasi</p><p style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-family: times; font-size: large; text-align: left;"></p><ul style="font-family: times; font-size: large; line-height: 1.4; margin: 0.5em 0px; padding: 0px 2.5em; text-align: left;"><li style="margin: 0px 0px 0.25em; padding: 0px;">* Superior weather resistance<li style="margin: 0px 0px 0.25em; padding: 0px;">* 5mm Round Standard Directivity<li style="margin: 0px 0px 0.25em; padding: 0px;">* UV Resistant Eproxy<li style="margin: 0px 0px 0.25em; padding: 0px;">* Forward Current (IF): 30mA<li style="margin: 0px 0px 0.25em; padding: 0px;">* Forward Voltage (VF): 1.8V to 2.4V<li style="margin: 0px 0px 0.25em; padding: 0px;">* Reverse Voltage: 5V<li style="margin: 0px 0px 0.25em; padding: 0px;">* Operating Temperature: -30°C to +85°C<li style="margin: 0px 0px 0.25em; padding: 0px;"><span style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),

url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"/>* Storage Temperature: -40°C to +100°C<li style="margin: 0px 0px 0.25em; padding: 0px;">* Luminous Intensity: 20mcd<p style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-family: times; font-size: large; text-align: left;"></p><p style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-family: times; font-size: large; text-align: left;">Konfigurasi Pin </p><p style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-family: times; font-size: large; text-align: left;"></p><p style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-family: times; font-size: large; text-align: left;"></p><ul style="font-family: times; font-size: large; line-height: 1.4; margin: 0.5em 0px; padding: 0px 2.5em; text-align: left;"><li style="margin: 0px 0px 0.25em; padding: 0px;">* Pin 1 : Positive terminal of LED<li style="margin: 0px 0px 0.25em; padding: 0px;">* Pin 2 : Negative terminal of LED</div>
<div class="separator" style="clear: both; font-family: times; font-size: large; text-align: center;">
</div><div style="text-align: left;">-LM 35</div><div>
</div><div>Fungsi: Mengubah besaran suhu menjadi besaran listrik dalam bentuk tegangan</div><div>
</div>
<div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjtqrK-3k3NOErLIWQUNARmsi4hhrN3siBdE1evwKKKCuluRJae-BoQa-ZN4Mp9ZDXKuZ7Kik1kQ2Cj8FNf8LHgBL-5nofxc6yZL8utYZ9n_XSP_V6si

eDUIZPeYtF8iKWatFQBvfy2Q02DpBJdPN4O9YZOt5eMeWbwoj8UBJzlwLqhPFwj1Kb4oTGKg/s579/1.PNG" style="margin-left: 1em; margin-right: 1em;"></div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: justify;">Spesifikasi:</div><div class="separator" style="clear: both; text-align: justify;">
</div><div class="separator" style="clear: both; text-align: center;"><div style="text-align: justify;"><div class="separator" style="clear: both; text-align: center;"></div><div style="text-align: justify;">
</div><div style="text-align: justify;">
</div><div style="text-align: justify;">
</div><div class="separator" style="clear: both; text-align: center;">
</div></div></div><div style="text-align: justify;">- OP-AMP atau Operational Amplifier sering disebut juga dengan Penguat Operasional.</div><div style="text-align: justify;">
</div><div style="text-align: justify;">Fungsi : Sebagai penguat sinyal listrik</div><div style="text-align: justify;">
</div><div style="text-align: justify;">Spesifikasi : 741
</div><div style="text-align: justify;"><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;">
</div> </div><div style="text-align: justify;"><div class="separator" style="clear: both; text-align: center;"></div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"><div style="background-color: white; color: #333333; font-family: times; font-size: large; text-align: start;"><div class="separator" style="clear: both;">Spesifikasi : </div></div><div class="separator" style="background-color: white; clear: both; color: #333333; font-family: times; font-size: large; text-align: start;"><ul style="border: 0px; color: #333333; font-stretch: inherit; font-variant-east-asian: inherit; font-variant-numeric: inherit; line-height: inherit; list-style: square; margin: 0px 0px 1.25rem 2.5rem; padding: 0px; vertical-align: baseline;"><li style="border: 0px; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; margin: 0px; padding: 0px; vertical-align: baseline;">Penguatan Tegangan Open-loop atau $A_v = \infty$ (tak terhingga)<li style="border: 0px; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; margin: 0px; padding: 0px; vertical-align: baseline;">Tegangan Offset Keluaran (Output Offset Voltage) atau $V_{oo} = 0$ (nol)<li style="border: 0px; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; margin: 0px; padding: 0px; vertical-align: baseline;">Impedansi Masukan (Input Impedance) atau $Z_{in} = \infty$ (tak terhingga)<li style="border: 0px; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; margin: 0px; padding: 0px; vertical-align: baseline;">Impedansi Output (Output Impedance) atau $Z_{out} = 0$ (nol)<li style="border: 0px; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; margin: 0px; padding: 0px; vertical-align: baseline;">Lebar Pita (Bandwidth) atau $BW = \infty$ (tak terhingga)<li style="border: 0px; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; margin: 0px; padding: 0px; vertical-align: baseline;">Karakteristik tidak berubah dengan suhu</div></div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"><div style="text-align: justify;">-Motor DC</div><div style="text-align: justify;">
</div><div style="text-align: justify;">Fungsi :Merubah energi listrik dari arus listrik AC menjadi energi mekanis. Energi mekanis yang terbangkitkan berupa energi putaran poros rotor motor listrik.</div><div style="text-align: justify;">
</div><div style="text-align: justify;"><div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEiWoOUXDGPBPXf-fLiC8wyj0Ckb3eGF-GvBaDHsSmq61OiTho-MrD7MLtbook6eBZ0UcIFqvRFILPb5nR124XJPhT2LN8eseUtrGz-pnbbIQvOxyXa

HSpq9ETczsqf4rm7E626XAkHpYw-14dq7N_pwrHOSff7pJvU8ELwLf58XAESl0BDQBWbEtGsg/s700/9d376
20acde52d8ab2fee4682d79daa0.jpg" style="margin-left: 1em; margin-right: 1em;"></div><div class="separator" style="clear: both;
text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"><h3
style="background-color: black; box-sizing: border-box; color: white; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto; font-family: times;
font-weight: 500; line-height: 28px; margin: 11.5px 0px; position: relative; text-align: justify;"><strong
style="box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto;"><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto;"><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto;"><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto; font-size:
medium;"> Specifications</h3><ul style="background-color: black;
color: white; font-family: times; line-height: 1.4; margin: 0.5em 0px; padding: 0px 2.5em; text-align:
justify;"><li style="margin: 0px 0px 0.25em; padding: 0px;">Standard 130 Type DC motor<li
style="margin: 0px 0px 0.25em; padding: 0px;">Operating Voltage: 4.5V to 9V<li style="margin: 0px
0px 0.25em; padding: 0px;">Recommended/Rated Voltage: 6V<li style="margin: 0px 0px 0.25em;
padding: 0px;">Current at No load: 70mA (max)<li style="margin: 0px 0px 0.25em; padding:
0px;">No-load Speed: 9000 rpm<li style="margin: 0px 0px 0.25em; padding: 0px;">Loaded current:
250mA (approx)<li style="margin: 0px 0px 0.25em; padding: 0px;">Rated Load: 10g*cm<li
style="margin: 0px 0px 0.25em; padding: 0px;">Motor Size: 27.5mm x 20mm x 15mm<li
style="margin: 0px 0px 0.25em; padding: 0px;"><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto;">Weight: 17
grams</div>
<span face="arial, sans-serif" style="background-color: white; color:
#202124; font-size: 16px; text-align: left;">
</div><div><span style="font-size:
medium;">
</div></div><span style="font-family:
times;">-Resistor</div><div style="text-align: justify;"><span
style="font-size: medium;">
</div><div style="text-align: justify;"><span
style="font-family: times;">Fungsi : Sebagai penghambat arus
listrik </div><div style="text-align: justify;"><span style="font-size:
medium;">
</div><div
style="text-align: justify;"><span

lang="id">Spesifikasi : R1 1k</div><div style="text-align: justify;"><div class="separator" style="clear: both; text-align: center;">
</div>
<div class="separator" style="clear: both; text-align: center;">
</div> </div><div style="text-align: justify;"><div class="separator" style="clear: both; text-align: center;"></div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: justify;">Spesifikasi:</div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"></div>
<div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"><div style="font-family: "Times New Roman"; font-size: medium; text-align: justify;">-Rain Sensor</div><div style="font-family: "Times New Roman"; font-size: medium; text-align: justify;">
</div><div style="font-family: "Times New Roman"; font-size: medium; text-align: justify;">Fungsi : Mendeteksi terjadinya hujan atau tidak, yang dapat difungsikan dalam segala macam aplikasi dalam kehidupan sehari – hari</div><div>
</div></div>
<div class="separator" style="clear: both; text-align: center;"></div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: justify;">Spesifikasi:</div><div class="separator" style="clear: both; text-align: justify;">
</div><div class="separator" style="clear: both; text-align: center;"></div>
<div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"><div style="font-family: "Times New Roman"; font-size: medium; text-align: justify;">-Relay</div><div style="font-family: "Times New Roman"; font-size: medium; text-align: justify;">
</div><div style="font-family: "Times New Roman"; font-size: medium; text-align: justify;">Fungsi : Mendalikan dan mengalirkan listrik</div><div style="font-family: "Times New Roman"; font-size: medium; text-align: justify;">
</div></div></div><div style="text-align: justify;"><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"></div><div class="separator" style="clear: both; text-align: center;"><div style="background-color: black; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><div style="cursor:

url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><div style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align: left;"><div
style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><span style="color:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><table
class="MsoTableGrid" style="border-collapse: collapse; border-spacing: 0px; border: 1pt solid
windowtext; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; margin-bottom: 23px;
max-width: 100%; width: 772px;"><tbody style="box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><tr style="box-sizing:
border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><td style="border:
1pt solid windowtext; box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height: 1.65;
padding: 8px; vertical-align: top; width: 58.75pt;" width="78"><p align="center" style="box-sizing:
border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; margin: 6px 0px 10pt;
padding: 0in 5.4pt; text-align: center;"><span style="box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height:
16.1px;"><b style="box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><span style="color:
white;">Nomor PIN</p></td><td style="border-bottom: 1pt solid
windowtext; border-image: initial; border-left: none; border-right: 1pt solid windowtext; border-top: 1pt
solid windowtext; box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height: 1.65;

padding: 8px; vertical-align: top; width: 136.5pt;" width="182"><p align="center" style="box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; margin: 6px 0px 10pt; padding: 0in 5.4pt; text-align: center;"><b style="box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;">Nama Pin</p></td><td style="border-bottom: 1pt solid windowtext; border-image: initial; border-left: none; border-right: 1pt solid windowtext; border-top: 1pt solid windowtext; box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height: 1.65; padding: 8px; vertical-align: top; width: 263.75pt;" width="352"><p align="center" style="box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; margin: 6px 0px 10pt; padding: 0in 5.4pt; text-align: center;"><b style="box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;">Deskripsi</p></td></tr><tr style="box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><td style="border-bottom: 1pt solid windowtext; border-image: initial; border-left: 1pt solid windowtext; border-right: 1pt solid windowtext; border-top: none; box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height: 1.65; padding: 8px; vertical-align: top; width: 58.75pt;" width="78"><p align="center" style="box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; margin: 6px 0px 10pt; padding: 0in 5.4pt; text-align: center;"><span style="color:

>1</p></td><td style="border-bottom: 1pt solid windowtext; border-left: none; border-right: 1pt solid windowtext; border-top: none; box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height: 1.65; padding: 8px; vertical-align: top; width: 136.5pt;" width="182"><p align="center" style="box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; margin: 6px 0px 10pt; padding: 0in 5.4pt; text-align: center;">Coil End 1</p></td><td style="border-bottom: 1pt solid windowtext; border-left: none; border-right: 1pt solid windowtext; border-top: none; box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height: 1.65; padding: 8px; vertical-align: top; width: 263.75pt;" width="352"><p style="box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; margin: 6px 0px 10pt; padding: 0in 5.4pt; text-align: justify;">Digunakan untuk memicu (On / Off) Relay, Biasanya satu ujung terhubung ke 12V dan ujung lainnya ke ground</p></td></tr><tr style="box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><td style="border-bottom: 1pt solid windowtext; border-image: initial; border-left: 1pt solid windowtext; border-right: 1pt solid windowtext; border-top: none; box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height: 1.65; padding: 8px; vertical-align: top; width: 58.75pt;" width="78"><p align="center" style="box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; margin: 6px 0px 10pt; padding: 0in 5.4pt; text-align: center;">2</p></td><td style="border-bottom: 1pt solid windowtext; border-left: none; border-right: 1pt solid windowtext; border-top: none; box-sizing: border-box; cursor:

url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height: 1.65;
padding: 8px; vertical-align: top; width: 136.5pt;" width="182"><p align="center" style="box-sizing:
border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; margin: 6px 0px 10pt;
padding: 0in 5.4pt; text-align: center;"><span style="box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height:
16.1px;"><span style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><span style="color:
white;">Coil End 2</p></td><td style="border-bottom: 1pt solid windowtext;
border-left: none; border-right: 1pt solid windowtext; border-top: none; box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height: 1.65;
padding: 8px; vertical-align: top; width: 263.75pt;" width="352"><p style="box-sizing: border-box;
cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; margin: 6px 0px 10pt;
padding: 0in 5.4pt; text-align: justify;"><span style="box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height:
16.1px;"><span style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><span style="color:
white;">Digunakan untuk memicu (On / Off) Relay, Biasanya satu ujung terhubung ke 12V dan ujung
lainnya ke ground</p></td></tr><tr style="box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; height: 2.3pt;"><td
style="border-bottom: 1pt solid windowtext; border-image: initial; border-left: 1pt solid windowtext;
border-right: 1pt solid windowtext; border-top: none; box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height: 1.65;
padding: 8px; vertical-align: top; width: 58.75pt;" width="78"><p align="center" style="box-sizing:
border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; margin: 6px 0px 10pt;
padding: 0in 5.4pt; text-align: center;"><span style="box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height:
16.1px;"><span style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><span style="color:
white;">3</p></td><td style="border-bottom: 1pt solid windowtext; border-left:
none; border-right: 1pt solid windowtext; border-top: none; box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height: 1.65;

padding: 8px; vertical-align: top; width: 136.5pt;" width="182"><p align="center" style="box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; margin: 6px 0px 10pt; padding: 0in 5.4pt; text-align: center;">Common (COM)</p></td><td style="border-bottom: 1pt solid windowtext; border-left: none; border-right: 1pt solid windowtext; border-top: none; box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height: 1.65; padding: 8px; vertical-align: top; width: 263.75pt;" width="352"><p align="center" style="box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; margin: 6px 0px 10pt; padding: 0in 5.4pt; text-align: center;">Common terhubung ke salah satu Ujung Beban yang akan dikontrol</p></td></tr><tr style="box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; height: 2.3pt;"><td style="border-bottom: 1pt solid windowtext; border-image: initial; border-left: 1pt solid windowtext; border-right: 1pt solid windowtext; border-top: none; box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height: 1.65; padding: 8px; vertical-align: top; width: 58.75pt;" width="78"><p align="center" style="box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; margin: 6px 0px 0.0001pt; padding: 0in 5.4pt; text-align: center;">4</p></td><td style="border-bottom: 1pt solid windowtext; border-left: none; border-right: 1pt solid windowtext; border-top: none; box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height: 1.65; padding: 8px; vertical-align: top; width: 136.5pt;" width="182"><p align="center" style="box-sizing:

border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; margin: 6px 0px
0.0001pt; padding: 0in 5.4pt; text-align: center;"><span style="box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height:
normal;"><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><span style="color:
white;">Normally Close (NC)</p></td><td style="border-bottom: 1pt solid
windowtext; border-left: none; border-right: 1pt solid windowtext; border-top: none; box-sizing:
border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height: 1.65;
padding: 8px; vertical-align: top; width: 263.75pt;" width="352"><p style="box-sizing: border-box;
cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; margin: 6px 0px
0.0001pt; padding: 0in 5.4pt; text-align: justify;"><span style="box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height:
normal;"><span style="box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; height: 2.3pt;"><span
style="box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; vertical-align:
inherit;"><span style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><span style="color:
white;"><span style="box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; vertical-align:
inherit;">Ujung lain dari beban terhubung ke NO atau NC. <span style="box-sizing:
border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; vertical-align:
inherit;">Jika terhubung ke NC beban tetap terhubung sebelum
pemicu</p></td></tr><tr style="box-sizing: border-box;
cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; height: 2.3pt;"><td
style="border-bottom: 1pt solid windowtext; border-image: initial; border-left: 1pt solid windowtext;
border-right: 1pt solid windowtext; border-top: none; box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height: 1.65;
padding: 8px; vertical-align: top; width: 58.75pt;" width="78"><p align="center" style="box-sizing:
border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),

url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; margin: 6px 0px 0.0001pt; padding: 0in 5.4pt; text-align: center;">5</p><td style="border-bottom: 1pt solid windowtext; border-left: none; border-right: 1pt solid windowtext; border-top: none; box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height: 1.65; padding: 8px; vertical-align: top; width: 136.5pt;" width="182"><p align="center" style="box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; margin: 6px 0px 0.0001pt; padding: 0in 5.4pt; text-align: center;">Normally Open (NO)</p><td style="border-bottom: 1pt solid windowtext; border-left: none; border-right: 1pt solid windowtext; border-top: none; box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height: 1.65; padding: 8px; vertical-align: top; width: 263.75pt;" width="352"><p style="box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; margin: 6px 0px 0.0001pt; padding: 0in 5.4pt; text-align: justify;">Ujung lain dari beban terhubung ke NO atau NC. <span style="box-sizing:

border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; vertical-align:
inherit;">Jika terhubung ke NO, beban tetap terputus sebelum
pemicu</p></td></tr></tbody></table></div></div></div></div><div style="background-color: black; color: white; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align: left;"><b
style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;">Spesifikasi
:</div><div style="background-color: black; color: white; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><ul style="cursor:
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url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height: 1.4;
margin: 0.5em 0px; padding: 0px 2.5em;"><span style="cursor:
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url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><li style="box-sizing:
border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; list-style: disc; margin:
0px 0px 0.25em; padding: 0px; text-align: left;">Trigger Voltage (Voltage across coil) : 12V DC<li
style="box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; list-style: disc; margin:
0px 0px 0.25em; padding: 0px; text-align: left;">Trigger Current (Nominal current) : 70mA<li
style="box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; list-style: disc; margin:
0px 0px 0.25em; padding: 0px; text-align: left;">Maximum AC load current: 10A @ 250/125V AC<li
style="box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; list-style: disc; margin:
0px 0px 0.25em; padding: 0px; text-align: left;">Maximum DC load current: 10A @ 30/28V DC<li
style="box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; list-style: disc; margin:
0px 0px 0.25em; padding: 0px; text-align: left;">Compact 5-pin configuration with plastic
moulding<li style="box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; list-style: disc; margin:
0px 0px 0.25em; padding: 0px; text-align: left;">Operating time: 10msec Release time: 5msec<li

style="box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; list-style: disc; margin: 0px 0px 0.25em; padding: 0px; text-align: left;">Maximum switching: 300 operating/minute (mechanically)</div></div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"><div style="font-family: "Times New Roman"; font-size: medium; text-align: justify;">-Logic State</div><div style="font-family: "Times New Roman"; font-size: medium; text-align: justify;">
</div><div style="font-family: "Times New Roman"; font-size: medium; text-align: justify;">Fungsi : Sebagai input dari gerbang logika dimana ini saya memakai sensor inframerah, logicstate berfungsi sebagai inputnya dari sensor ini</div><div style="font-family: "Times New Roman"; font-size: medium; text-align: justify;">
</div><div style="font-family: "Times New Roman"; font-size: medium; text-align: justify;">
</div><div><div class="separator" style="clear: both; text-align: center;"></div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: justify;">-Transistor NPN BC 547</div><div class="separator" style="clear: both; text-align: justify;">
</div><div class="separator" style="clear: both; text-align: center;"></div>
<div class="separator" style="clear: both; text-align: center;">
</div><div style="background-color: black; color: white; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),

[illegible]

[url\("https://ani.cursors-4u.net/games/gam-16/gam1571.png"\);](https://ani.cursors-4u.net/games/gam-16/gam1571.png), auto;"><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto;"><br style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto;"
</div><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto;"><div style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto; text-align: left;"><b
style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");,
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto;">Spesifikasi
</div><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto;"><div style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto; text-align: left;"><span
style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");,
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto;"><span
style="background-attachment: initial; background-clip: initial; background-image: initial;
background-origin: initial; background-position: initial; background-repeat: initial; background-size:
initial; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");,
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto; line-height:
15.3333px;">Transistor Type<span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto;"> ;
NPN</div><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto;"><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto;"><div style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto; text-align:
left;">Voltage – Collector Emitter Breakdown (Max) : 45 V</div><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto;"><div style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto; text-align:
left;">Current- Collector (Ic) (Max) : 100mA</div><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");, auto;"><div style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png");

url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align: left;">Power
– Max : 625 mW</div><span style="background-attachment: initial; background-clip: initial;
background-image: initial; background-origin: initial; background-position: initial; background-repeat:
initial; background-size: initial; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height:
15.3333px;"><div style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align: left;"><span
style="background-attachment: initial; background-clip: initial; background-image: initial;
background-origin: initial; background-position: initial; background-repeat: initial; background-size:
initial; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height:
15.3333px;">DC Current Gain (hFE) (Min) @ Ic, Vce<span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"> : 110 @ 2mA,
5V</div><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><div style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align: left;">Vce
Saturation (Max) @ Ib Ic : 300mV, @ 5mA, 100mA</div><span style="background-attachment:
initial; background-clip: initial; background-image: initial; background-origin: initial;
background-position: initial; background-repeat: initial; background-size: initial; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height:
15.3333px;"><div style="cursor:
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url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align: left;"><span
style="background-attachment: initial; background-clip: initial; background-image: initial;
background-origin: initial; background-position: initial; background-repeat: initial; background-size:
initial; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height:
15.3333px;">Frequency – Transition<span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"> :
300MHz</div><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><div style="cursor:
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url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align:
left;">Current- Collector Cutoff (Max) : -</div><span style="cursor:

url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><div style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align:
left;">Mounting Type : Through Hole</div><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><div style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align:
left;">Package / Case : TO-226-3, TO-92-3 (TO-226AA) Formed Leads</div><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><div style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align:
left;">Packaging : Tape & Box (TB</div><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><div style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align: left;">Lead
Free Status : Lead Free</div><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><div style="cursor:
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url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align: left;"><span
style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;">RoHs Status : RoHs
Compliant</div></div></div><span face="arial, sans-serif"
style="background-color: white; color: #202124; font-size: 16px; text-align: left;">
</div></div>
</div><div style="text-align: justify;"><span
style="font-size: medium;"><div class="separator"
style="clear: both; text-align: center;">
</div></div><div style="text-align: justify;"><span style="font-family:
times;">Ground</div><div style="text-align: justify;"><span style="font-size:
medium;"></div><div style="text-align: justify;"><span
style="font-size: medium;">
Fungsi : Sebagai
penghantar arus listrik ke tanah</div><div style="text-align: justify;"><span
style="font-size: medium;">
</div><div style="text-align: justify;"><span
style="font-family: times;"><div class="separator" style="clear: both; text-align: center;"><a
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xrdB_U2810ecXdAtq4R9U0iTTACuAtBM0epv7wSxgTaPL1cGzM9rdh0ooUMrm4MAo7MWjDd7QpT1WW4
WaG8pCva_9DI3994o4xHxBrzcmQAd1NKh2NRPZDWwx9P0EvNKRUK_WQYsToPehGDy98nA2y4KqbWDM

VA/s226/dca41d60-db86-4c08-9675-0e5dd643cbe9.jpg" style="margin-left: 1em; margin-right: 1em;"></div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;">a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEj_IgWtpeKY-hzySDpNG2wI2WZGkKCX3eBX1N1zlZ6wzu7JwXTnqo7gtWp-ZUBRiTGyt80ikHj1DKillsTb-MsjGJ98tsNRHQa7giAvrnvdeSZHfr4CAisWDbzprXkUboHCxDQZz5BHotVCT318kkJP6ifRT4kmqmU96_sPr6bKx_zx3iojSpcGeQFWDg/s320/asdas.jpg" style="margin-left: 1em; margin-right: 1em;"></div>
<div class="separator" style="clear: both; text-align: center;">
</div>

</div><div style="text-align: justify;">
</div><div style="text-align: justify;"><div class="separator" style="clear: both; text-align: center;">
</div></div><div style="text-align: justify;">3. Dasar Teori [Kembali]</div><div style="text-align: justify;"><p class="MsoNormal" style="background-color: white; color: #232323; text-align: justify;"> Sun Tracker/Pelacak cahaya matahari</p><p class="MsoNormal" style="background-color: white; color: #232323; text-align: justify;"> Pelacak mengarahkan panel surya atau modul ke arah matahari. Perangkat ini mengubah orientasi mereka sepanjang hari untuk mengikuti jalur matahari untuk memaksimalkan penangkapan energi. Pelacak surya sumbu tunggal berputar pada satu sumbu bergerak bolak-balik dalam satu arah.</p><p class="MsoNormal" style="background-color: white; color: #232323; text-align: justify;"> Solar tracker ini menggunakan sensor LDR sebagai sensor untuk membaca arah pergerakan matahari, dimana agar solar tracker ini mampu bergerak mengikuti arah sinar matahari agar mendapat energy

matahari secara maksimal. Dual axis solar tracker ini juga

dilengkapi dengan pembersih solar cell dengan

menggunakan air sebagai media pembersihnya.

Jadi setiap jam 6 sore secara otomatis washer atau

pembersih solar sel akan menyemprotkan air ke solar sel

selama 10 detik agar debu debu atau kotoran yang ada

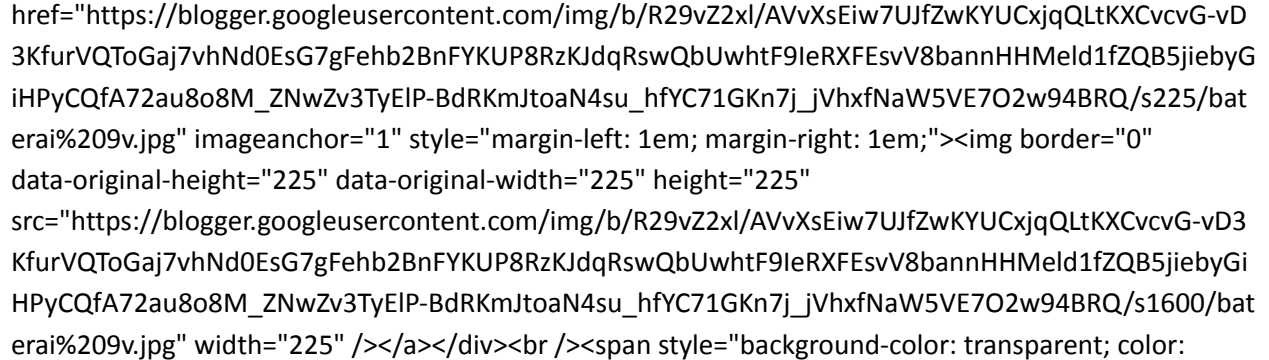
pada solar cell dapat dibersihkan sehingga solar cell

dapat menyerap energy matahari secara maksimal tanpa

hambatan.

A. Baterai

Baterai merupakan sebuah alat yang mengubah energi kimia yang tersimpan menjadi energi listrik. Pada percobaan kali ini, baterai berfungsi sebagai sumber daya.



Spesifikasi:

- Input voltage: ac 100~240v / dc 10~30v
- Output voltage: dc

[illegible]

[illegible]

font-size: large;">Spesifikasi :</p><div class="separator" style="clear: both; text-align: center;"><p style="background-color: white; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-family: times; font-size: large; text-align: left;"></p><ul style="background-color: white; font-family: times; font-size: large; line-height: 1.4; margin: 0.5em 0px; padding: 0px 2.5em; text-align: left;"><li style="margin: 0px 0.25em; padding: 0px;">* Superior weather resistance<li style="margin: 0px 0.25em; padding: 0px;">* 5mm Round Standard Directivity<li style="margin: 0px 0.25em; padding: 0px;">* UV Resistant Eproxy<li style="margin: 0px 0.25em; padding: 0px;">* Forward Current (IF): 30mA<li style="margin: 0px 0.25em; padding: 0px;">* Forward Voltage (VF): 1.8V to 2.4V<li style="margin: 0px 0.25em; padding: 0px;">* Reverse Voltage: 5V<li style="margin: 0px 0.25em; padding: 0px;">* Operating Temperature: -30°C to +85°C<li style="margin: 0px 0.25em; padding: 0px;">* Storage Temperature: -40°C to +100°C<li style="margin: 0px 0.25em; padding: 0px;">* Luminous Intensity: 20mcd<p style="background-color: white; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-family: times; font-size: large; text-align: left;"></p><p style="background-color: white; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-family: times; font-size: large; text-align: left;"><span

style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; ">Konfigurasi Pin : </p><p style="background-color: white; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-family: times; font-size: large; text-align: left; "></p><p style="background-color: white; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-family: times; font-size: large; text-align: left; "></p><ul style="background-color: white; font-family: times; font-size: large; line-height: 1.4; margin: 0.5em 0px; padding: 0px 2.5em; text-align: left; "><li style="margin: 0px 0px 0.25em; padding: 0px; ">* Pin 1 : Positive terminal of LED<li style="margin: 0px 0px 0.25em; padding: 0px; ">* Pin 2 : Negative terminal of LED</div><p class="MsoNormal" style="background-color: white; color: #232323; text-align: justify; ">

</p><p class="MsoNormal" style="background-color: white; color: #232323; text-align: justify; ">D. Transistor</p><p class="MsoNormal" style="background-color: white; color: #232323; text-align: justify; "> Transistor merupakan alat semikonduktor yang dapat digunakan sebagai penguat sinyal, pemutus atau penyambung sinyal (<i style="background-color: transparent; color: #212121; font-family: times; margin: 0px; padding: 0px; text-indent: 0pt; ">switching</i>), stabilisasi tegangan, dan fungsi lainnya. Transistor memiliki 3 kaki elektroda, yaitu basis, kolektor, dan emitor. Pada rangkaian kali ini digunakan transistor BC548C bertipe NPN. Transistor ini diperumpamakan sebagai saklar, yaitu ketika kaki basis diberi arus, maka arus pada kolektor akan mengalir ke emiter yang disebut dengan kondisi ON. Sedangkan ketika kaki basis tidak diberi arus, maka tidak ada arus mengalir dari kolektor ke emitor yang disebut dengan kondisi OFF. Namun, jika arus yang diberikan pada kaki basis melebihi arus pada kaki kolektor atau arus pada kaki kolektor adalah nol (karena tegangan kaki kolektor sekitar 0,2 - 0,3 V), maka transistor akan mengalami cutoff (saklar tertutup).</p><p class="MsoNormal" style="background-color: white; color: #232323; text-align: justify; "></p><div class="separator" style="clear: both; text-align: center; "><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjLwkog14-xQuzLsrg5RyZmyrx28yJRK0Mq8jNwFZkp10oplM_FtnqdwYy426Crseb6cBvWlv8ppYgkvRnqfL8ftzg1Oty5rm247--Vlo_fGCBroxQM MYzuCOTC34y20hPO4gtBoyAs8T-Eyy3iIKrJMTL7DH7VpseVZTcPeqLApDIHkNR3w_-G9SntSg/s320/BC%205

47.png" imageanchor="1" style="margin-left: 1em; margin-right: 1em;"></div><p class="MsoNormal" style="background-color: white; color: #232323; text-align: justify;">
<p></p><div style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align: center;"><div style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align: left;"><b style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;">Konfigurasi Pin</div><div style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align: left;">1. Collector</div><div style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align: left;">2. Base</div><div style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align: left;">3. Emitter</div></div><div style="-webkit-text-stroke-width: 0px; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-family: times; font-size: medium; font-style: normal; font-variant-caps: normal; font-variant-ligatures: normal;

font-weight: 400; letter-spacing: normal; orphans: 2; text-align: center; text-decoration-color: initial;
text-decoration-style: initial; text-decoration-thickness: initial; text-indent: 0px; text-transform: none;
white-space: normal; widows: 2; word-spacing: 0px;"><span style="cursor:
[url\("https://ani.cursors-4u.net/games/gam-16/gam1571 ani"](https://ani.cursors-4u.net/games/gam-16/gam1571 ani")),
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/></div><span style="cursor:
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style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571 ani");
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</div><span style="cursor:
[url\("https://ani.cursors-4u.net/games/gam-16/gam1571 ani"](https://ani.cursors-4u.net/games/gam-16/gam1571 ani")
[url\("https://ani.cursors-4u.net/games/gam-16/gam1571.png"](https://ani.cursors-4u.net/games/gam-16/gam1571.png")), auto;"><div style="cursor:
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background-origin: initial; background-position: initial; background-repeat: initial; background-size:
initial; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571 ani");
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15.3333px;">Transistor Type<span style="cursor:

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url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><div style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align:
left;">Current- Collector (Ic) (Max) : 100mA</div><span style="cursor:
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– Max : 625 mW</div><span style="background-attachment: initial; background-clip: initial;
background-image: initial; background-origin: initial; background-position: initial; background-repeat:
initial; background-size: initial; cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
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url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; line-height:
15.3333px;">DC Current Gain (hFE) (Min) @ Ic, Vce<span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"> : 110 @ 2mA,
5V</div><span style="cursor:
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url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align: left;">Vce
Saturation (Max) @ Ib Ic : 300mV, @ 5mA, 100mA</div><span style="background-attachment:
initial; background-clip: initial; background-image: initial; background-origin: initial;
background-position: initial; background-repeat: initial; background-size: initial; cursor:
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style="background-attachment: initial; background-clip: initial; background-image: initial;
background-origin: initial; background-position: initial; background-repeat: initial; background-size:
initial; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
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300MHz</div><span style="cursor:
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left;">Current- Collector Cutoff (Max) : -</div><span style="cursor:
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left;">Mounting Type : Through Hole</div><span style="cursor:
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url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align:
left;">Package / Case : TO-226-3, TO-92-3 (TO-226AA) Formed Leads</div><span style="cursor:
url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><div style="cursor:
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left;">Packaging : Tape & amp; Box (TB</div><span style="cursor:
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url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;"><div style="cursor:
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url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; text-align: left;">Lead
Free Status : Lead Free</div><span style="cursor:
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style="cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
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Compliant</div></div><p class="MsoNormal"
style="background-color: white; color: #232323; text-align: justify;"><span style="color: white; cursor:
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text-align: start;"><span style="background-color: transparent; color: #212121; font-family:
times; text-indent: 0pt;">
</p><p class="MsoNormal" style="background-color: white;
color: #232323;"><span style="background-color: transparent; color: #212121; font-family: times;
text-indent: -14pt;">E. Motor</p><p class="MsoNormal" style="background-color:

[illegible]

[illegible]

percikan api pada konsleting, misalnya kabel grounding yang terpasang pada badan/sasis alat elektronik seperti setrika listrik akan mencegah kita tersengat listrik saat rangkaian di dalam setrika bocor dan menempel ke badan setrika.

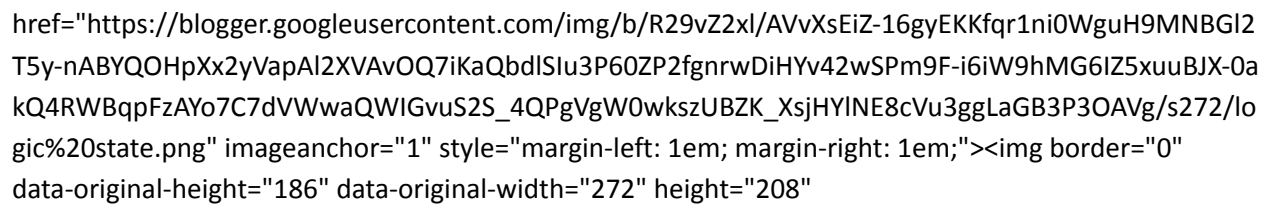
3. Dalam instalasi penangkal petir, system grounding berfungsi sebagai penghantar arus listrik yang besar langsung ke bumi. meski sifatnya sama, namun pemasangan kabel grounding untuk instalasi rumah dan grounding untuk penangkal petir pemasangannya harus terpisah.

4. Sebagai proteksi peralatan elektronik atau instrumentasi sehingga dapat mencegah kerusakan akibat adanya bocor tegangan.

Grounding di dunia eletronika berfungsi untuk menetralsir cacat (noise) yang disebabkan baik oleh daya yang kurang baik, ataupun kualitas komponen yang tidak standar.

G. Logicstate

Logicstate berfungsi sebagai input dari gerbang logika dimana ini saya memakai sensor inframerah, logicstate berfungsi sebagai inputnya dari sensor ini.



H. Relay

Prinsip Kerja Relay

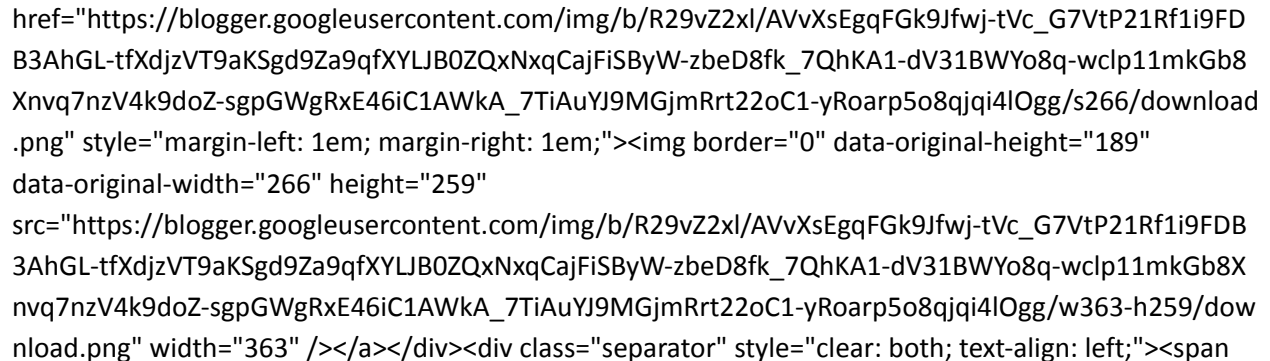
Pada dasarnya, Relay terdiri dari 4 komponen dasar yaitu:

- Electromagnet (Coil)

Armature

Switch Contact Point (Saklar)

Spring



Berikut ini merupakan gambar dari bagian-bagian Relay

Kontak Poin (Contact Point)

Relay terdiri dari 2 jenis yaitu :

Normally Close (NC) yaitu kondisi awal sebelum diaktifkan akan selalu berada di posisi CLOSE (tertutup)

Normally Open (NO) yaitu kondisi awal sebelum diaktifkan akan selalu berada di posisi OPEN (terbuka)

Berdasarkan gambar diatas, sebuah Besi (Iron Core) yang dililit oleh sebuah kumparan Coil yang berfungsi untuk mengendalikan Besi tersebut. Apabila Kumparan Coil diberikan arus listrik, maka akan timbul gaya Elektromagnet yang kemudian menarik Armature untuk berpindah dari Posisi sebelumnya (NC) ke posisi baru (NO) sehingga menjadi Saklar yang dapat menghantarkan arus listrik di posisi barunya (NO). Posisi dimana Armature tersebut berada sebelumnya (NC) akan menjadi OPEN atau tidak terhubung. Pada saat tidak dialiri arus listrik, Armature akan kembali lagi ke posisi Awal (NC). Coil yang digunakan oleh Relay untuk menarik Contact Poin ke Posisi Close pada umumnya hanya membutuhkan arus listrik yang relatif kecil.

[illegible]

class="s16" style="margin: 0pt; padding: 0px 0px 0px 23pt; text-align: justify; text-indent: 0pt; ">- Double Pole Single Throw (DPST) : Relay golongan ini memiliki 6 Terminal, diantaranya 4 Terminal yang terdiri dari 2 Pasang Terminal Saklar sedangkan 2 Terminal lainnya untuk Coil. Relay DPST dapat dijadikan 2 Saklar yang dikendalikan oleh 1 Coil.</p><li data-list-text="⌚" style="display: block; margin: 0px; padding: 0px;"><p class="s16" style="margin: 0pt; padding: 0px 0px 0px 23pt; text-align: justify; text-indent: 0pt;">- Double Pole Double Throw (DPDT) : Relay golongan ini memiliki Terminal sebanyak 8 Terminal, diantaranya 6 Terminal yang merupakan 2 pasang Relay SPDT yang dikendalikan oleh 1 (single) Coil. Sedangkan 2 Terminal lainnya untuk Coil. </p><li data-list-text="⌚" style="display: block; margin: 0px; padding: 0px;"><p class="s16" style="margin: 0pt; padding: 0px 0px 0px 23pt; text-align: justify; text-indent: 0pt;">
</p><li data-list-text="⌚" style="display: block; margin: 0px; padding: 0px;"><p class="s16" style="margin: 0pt; padding: 0px 0px 0px 23pt; text-align: justify; text-indent: 0pt;">Selain Golongan Relay diatas, terdapat juga Relay-relay yang Pole dan Throw-nya melebihi dari 2 (dua). Misalnya 3PDT (Triple Pole Double Throw) ataupun 4PDT (Four Pole Double Throw) dan lain sebagainya.</p></div><div class="separator" style="clear: both; text-align: center;">
</div>
<div class="separator" style="clear: both; font-family: Georgia, Utopia, "Palatino Linotype", Palatino, serif; text-align: center;"></div><div class="separator" style="clear: both; text-align: center;"><p class="s14" style="color: #212121; font-family: Arial, sans-serif; margin: 0pt; padding: 0px; text-align: justify; text-indent: 0pt;"><b style="font-family: times; text-align: left; text-indent: 0pt;">I .Dioda</p><p class="s14" style="color: #212121; font-family: Arial, sans-serif; margin: 0pt; padding: 0px; text-align: justify; text-indent: 0pt;">
</p><p class="s14" style="color: #212121; font-family: Arial, sans-serif; margin: 0pt; padding: 0px; text-align: justify; text-indent: 0pt;"> Diode adalah komponen aktif dua kutub yang pada umumnya bersifat semikonduktor,

yang memperbolehkan arus listrik mengalir ke satu arah (kondisi panjar maju) dan menghambat arus dari arah sebaliknya (kondisi panjar mundur). Diode dapat disamakan sebagai fungsi katup di dalam bidang elektronika. Diode sebenarnya tidak menunjukkan karakteristik kesearahan yang sempurna, melainkan mempunyai karakteristik hubungan arus dan tegangan kompleks yang tidak linier dan sering kali tergantung pada teknologi atau material yang digunakan serta parameter penggunaan. Beberapa jenis

diode juga mempunyai fungsi yang tidak ditujukan untuk penggunaan penyearahan.

Spesifikasi

- url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"),
- url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-stretch: inherit; font-variant-east-asian: inherit; font-variant-numeric: inherit; line-height: inherit; list-style: none; margin: 0px 0px 15px 30px; padding: 0px; vertical-align: baseline;
- li style="border: 0px; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; list-style: square; margin: 0px; padding: 0px; vertical-align: baseline;
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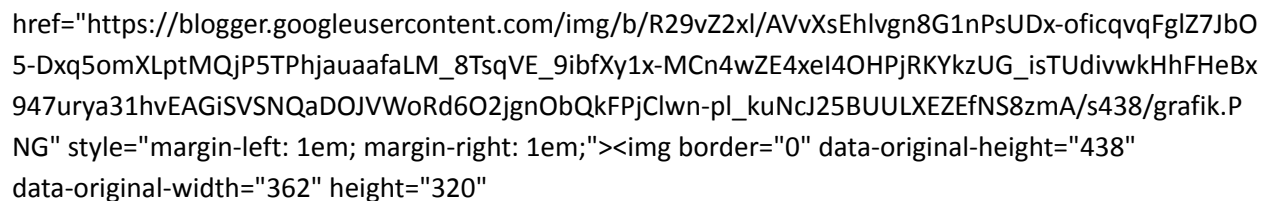
url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto;">Package Type: Available in DO-41 & SMD Packages<li style="border: 0px; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; list-style: square; margin: 0px; padding: 0px; vertical-align: baseline;">Diode Type: Silicon Rectifier General Usage Diode<li style="border: 0px; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; list-style: square; margin: 0px; padding: 0px; vertical-align: baseline;">Max Repetitive Reverse Voltage is: 1000 Volts<li style="border: 0px; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; list-style: square; margin: 0px; padding: 0px; vertical-align: baseline;">1000 Volts</div>

Opx; padding: 0px; vertical-align: baseline;">Average Fwd Current: 1000mA<li style="border: 0px; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; list-style: square; margin: 0px; padding: 0px; vertical-align: baseline;">Non-repetitive Max Fwd Current: 30A<li style="border: 0px; cursor: url("https://ani.cursors-4u.net/games/gam-16/gam1571.ani"), url("https://ani.cursors-4u.net/games/gam-16/gam1571.png"), auto; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; list-style: square; margin: 0px; padding: 0px; vertical-align: baseline;">Max Power Dissipation is: 3W<li style="border: 0px; cursor:

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font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; list-style: square; margin:
0px; padding: 0px; vertical-align: baseline;">><span style="cursor:
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Operating temperature Should Be: <span style="border: 0px; cursor:
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font-style: inherit; font-variant: inherit; font-weight: 600; line-height: inherit; margin: 0px; padding: 0px;
vertical-align: baseline;">>-55 to +175
Centigrade</div></div><p class="s14" style="color: #212121;
font-family: Arial, sans-serif; margin: 0pt; padding: 0px; text-align: justify; text-indent: 0pt;">
<span
style="font-family: times; font-weight: bold; text-align: left; text-indent: 0pt;">
</p><p
class="s14" style="color: #212121; font-family: Arial, sans-serif; margin: 0pt; padding: 0px; text-align:
justify; text-indent: 0pt;"><span style="font-family: times; font-weight: bold; text-align: left; text-indent:
0pt;">J. Sensor LDR</p><p class="s14" style="color: #212121; font-family: Arial, sans-serif;
margin: 0pt; padding: 0px; text-align: justify; text-indent: 0pt;"><span style="font-family: times;
text-align: left; text-indent: 18pt;">
</p><p class="s14" style="color: #212121; font-family:
Arial, sans-serif; margin: 0pt; padding: 0px; text-align: justify; text-indent: 0pt;"><span style="font-family:
times; text-align: left; text-indent: 18pt;"> &Nilai resistansi LDR sangat
dipengaruhi oleh intensitas cahaya. Semakin banyak cahaya yang mengenainya, maka semakin menurun
nilai resitansinya. Sebaliknya, jika cahaya yang &mengenalinya sedikit (gelap), maka nilai
hambatannya menjadi semakin besar, sehingga arus listrik yang mengalir akan
terhambat.</p><p style="margin: 0pt; padding: 0px 0px 0px 23pt; text-align: left; text-indent:
18pt;">
</p><p style="margin: 0pt; padding: 0px 0px 0px
23pt; text-align: left; text-indent: 18pt;"></p><div class="separator" style="clear: both;"><a
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ownload%20(5).jpg" style="margin-left: 1em; margin-right: 1em;"></div><div class="separator" style="clear: both;">
</div><p></p><p class="s21" style="color: #404040; margin: 0pt; padding: 4pt 0px 0px 23pt;
text-align: left; text-indent: 0pt;">Adapun spesifikasi atau karakteristik

umum dari sensor cahaya LDR adalah sebagai berikut:

1. Tegangan maksimum (DC): 150V
2. Konsumsi arus maksimum: 100mW
3. Tingkatan Resistansi/Tahanan : 10Ω sampai 100KΩ
4. Puncak spektral: 540nm (ukuran gelombang cahaya)
5. Waktu Respon Sensor : 20ms – 30ms
6. Suhu operasi: -30° Celsius – 70° Celcius



[!\[\]\(bbce3cb04238ef083e5f2d8f48a65087_img.jpg\)](https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEhIvgn8G1nPsUDx-oficqvqFglZ7JbO5-Dxq5omXLptMQjP5TPHjauaafaLM_8TsQVE_9ibfXy1x-MCn4wZE4xel4OHPjRKYkzUG_isTUDivwkHhFHeBx947urya31hvEAGiSVSNQaDOJVWoRd6O2jgnObQkFPjClwn-pl_kuNcJ25BUULXEZEfNS8zmA/s438/grafik.PNG)

K. LM35

Sensor suhu IC LM 35 merupakan chip IC produksi Natioanal Semikonduktor yang berungsi untuk mengetahui temperature suatu objek atau ruangan dalam bentuk besaran elektrik atau dapat juga didefenisikan sebagai komponen elektronika yang berfungsi mengubah perubahan temperature yang diterima dala perubahan besaran elektrik. Sensor suhu IC LM 35 dapat mengubah perubahan temperature menjadi perubahan tegangan pada bagian outputnya. Sensor suhu IC LM35 membutuhkan sumber tegangan DC +5 volt dan konsumsi arus DC sebesar 60

μAdalam beroperasi. Bentuk fisik sensor suhu LM35 meruakan chip IC dengan kemasan bervariasi , pada umumnya kemasan sensor suhu LM 35 adalah kemasan TO-92 .

[illegible]

Memiliki impedansi keluaran yang rendah yaitu 0,1 W untuk beban 1 mA.

Sensor suhu IC LM35 memiliki keakuratan tinggi dan mudah dalam perancangan jika dibandingkan dengan sensor suhu yang lain, sensor suhu LM35 juga mempunyai keluaran impedansi yang rendah dan linieritas yang tinggi sehingga dapat dengan mudah dihubungkan dengan rangkaian kontrol khusus serta tidak memerlukan seting tambahan karena output dari sensor suhu LM35 memiliki karakter yang linier dengan perubahan 10mV/°C. Sensor suhu LM35 memiliki jangkauan pengukuran -55°C hingga +150°C dengan akurasi ±0.5°C. Tegangan output sensor suhu IC LM35 dapat diformulasikan sebagai berikut

$$V_{out} = 10 \text{ mV} \times \text{Temperature}^{\circ}\text{C}$$

L. Komparator non inverting

Komparator adalah komponen elektronik yang berfungsi membandingkan dua nilai kemudian memberikan hasilnya, mana yang lebih besar dan mana yang lebih kecil.

Non-Inverting Comparator

Pada Non-Inverting Comparator, tegangan input dipasang pada saluran non-inverting (+) dan tegangan referensi pada saluran inverting (-).

Pada rangkaian Non-Inverting Comparator, jika V_{in} lebih besar dari V_{ref} , maka tegangan output adalah $+V_{sat}$ (mendekati tegangan +VCC). Jika V_{in} lebih kecil dari V_{ref} , maka tegangan output adalah $-V_{sat}$ (mendekati tegangan -VEE).

Inverting Comparator

Pada Inverting Comparator tegangan input (V_{in}) dihubungkan pada saluran inverting (-) dan tegangan referensi (V_{ref}) pada saluran non-inverting (+).

Tegangan referensi dapat menggunakan sumber catu daya tegangan konstan atau rangkaian pembagi tegangan.

M. Rain Sensor

Sensor hujan adalah jenis sensor yang berfungsi untuk mendeteksi terjadinya hujan atau tidak, yang dapat difungsikan dalam segala macam aplikasi dalam kehidupan sehari – hari. Dipasaran sensor ini dijual dalam bentuk module sehingga hanya perlu menyediakan kabel jumper untuk dihubungkan ke mikrokontroler atau Arduino.

Prinsip kerja dari module sensor ini yaitu pada saat ada air hujan turun dan mengenai panel sensor maka akan terjadi proses elektrolisis oleh air hujan. Dan karena air hujan termasuk dalam golongan cairan elektrolit yang dimana cairan tersebut akan menghantarkan arus listrik.

Pada sensor hujan ini terdapat komparator yang dimana output dari sensor ini dapat berupa logika high dan low (on atau off). Serta pada modul sensor ini terdapat output yang berupa

Opt;">tegangan pula. Sehingga dapat dikoneksikan ke pin khusus Arduino yaitu<i style="color: #404040; font-family: times; margin: 0px; padding: 0px; text-align: left; text-indent: 0pt;">Analog Digital Converter</i>.</div><div class="separator" style="clear: both; text-align: justify;"> Dengan singkat kata, sensor ini dapat digunakan untuk memantau kondisi ada tidaknya hujan di lingkungan luar yang dimana output dari sensor ini dapat berupa sinyal analog maupun sinyal digital.</div><div class="separator" style="clear: both; text-align: justify;">
</div><div class="separator" style="clear: both; text-align: justify;"><div class="separator" style="clear: both; text-align: center;"></div>

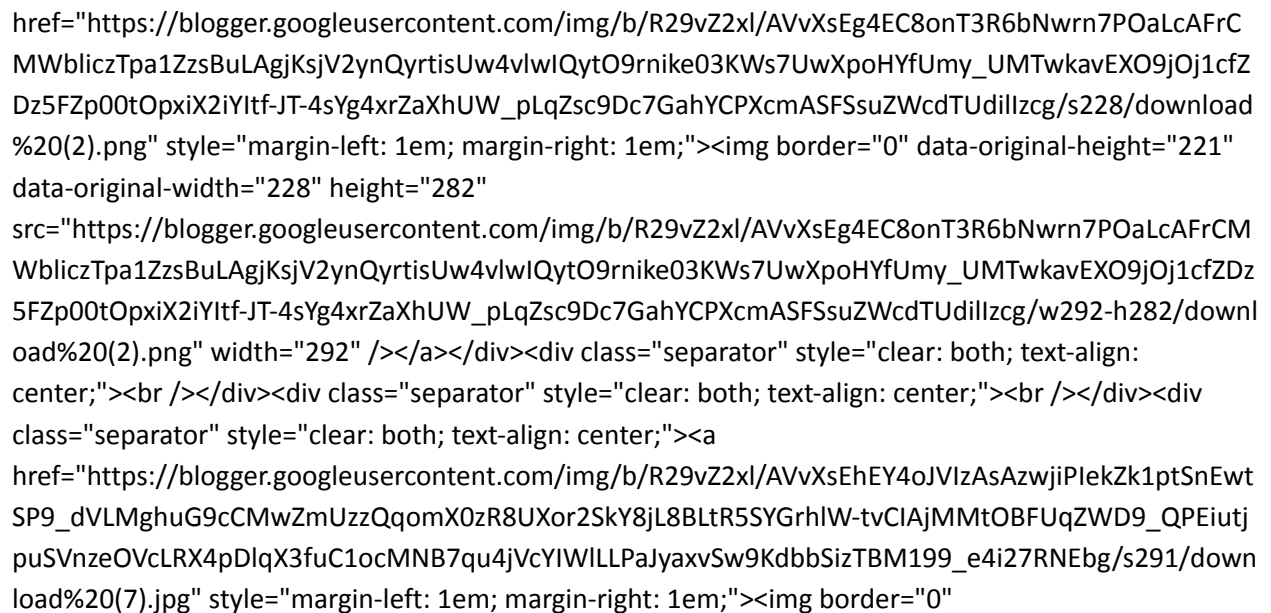
</div><div class="separator" style="clear: both; text-align: justify;">Spesifikasi sensor hujan :</div><div class="separator" style="clear: both; text-align: justify;">1. Sensor ini bermaterial dari FR-04 dengan dimensi 5cm x 4cm berlapis nikel dan dengan kualitas tinggi pada kedua sisinya</div><div class="separator" style="clear: both; text-align: justify;">2. Pada lapisan module mempunyai sifat anti oksidasi sehingga tahan terhadap korosi</div><div class="separator" style="clear: both; text-align: justify;">3. Tegangan kerja masukan sensor 3.3V – 5V</div><div class="separator" style="clear: both; text-align: justify;">4. Menggunakan IC comparator LM393 yang stabil</div><div class="separator" style="clear: both; text-align: justify;">5. Output dari modul comparator dengan kualitas sinyal bagus lebih dari 15mA</div><div class="separator" style="clear: both; text-align: justify;">6. Dilengkapi lubang baut untuk instalasi dengan modul lainnya</div><div class="separator" style="clear: both; text-align: justify;">7. Terdapat potensiometer yang berfungsi untuk mengatur sensitifitas sensor</div><div class="separator" style="clear: both; text-align: justify;">8. Terdapat 2 Output yaitu digital (0 dan 1) dan analog (tegangan)</div><div

class="separator" style="clear: both; text-align: justify;">9. Dimensi PCB yaitu 3.2 cm x 1.4 cm</div><div class="separator" style="clear: both;"><p style="font-family: "Times New Roman"; serif; font-size: 12pt; margin: 0pt; padding: 0px; text-align: left; text-indent: 0pt;"><br style="margin: 0px; padding: 0px;" /></p></div><p class="s21" style="color: #404040; margin: 0pt; padding: 4pt 0px 0px 23pt; text-align: left; text-indent: 0pt;">
</p></div></div><div class="separator" style="clear: both; text-align: center;">
</div></div><div style="text-align: justify;">4. Percobaan[Kembali]</div><div style="text-align: justify;">
</div><div style="text-align: justify;"><h2 style="background-color: white; color: #202122; margin: 0px; position: relative;"><div class="separator" style="clear: both; text-align: center;"><div class="separator" style="clear: both; font-weight: 400;"><div style="text-align: justify;"><div style="color: #222222; text-align: left;">A. Prosedur percobaan</div><div style="color: #222222; text-align: left;">
</div></div></div></div></div></h2><h2 style="background-color: white; color: #202122; margin: 0px; position: relative;"><li style="margin: 0px 0px 0.25em; padding: 0px;">Bukalah aplikasi proteus terlebih dahulu.<li style="margin: 0px 0px 0.25em; padding: 0px;">Buka schematic capture, pilih bagian component mode (), dan pada bagian devices klik 'P'.<li style="margin: 0px 0px 0.25em; padding: 0px;">Pastikan kategorinya berada pada all categories agar mudah dalam melakukan pencarian.<li style="margin: 0px 0px 0.25em; padding: 0px;">Ketikkan semua nama bahan komponen yang dibutuhkan dalam rangkaian.<li style="margin: 0px 0px 0.25em; padding: 0px;">Double klik komponen yang kita butuhkan agar komponen tersebut muncul dikolom Devices.<li style="margin: 0px 0px 0.25em; padding: 0px;">Buka bagian Terminals mode ().<li style="margin: 0px 0px 0.25em; padding: 0px;">Pilih terminal yang diperlukan.<li style="margin: 0px 0px 0.25em; padding: 0px;">Setelah semua komponen didapatkan, letakkan komponen pada papan rangkaian.<li style="margin: 0px 0px 0.25em; padding: 0px;">Rangkailah semua komponen sesuai prinsipnya.<li style="margin: 0px 0px 0.25em; padding: 0px;">Klik play) pada bagian kiri bawah aplikasi untuk menjalankan rangkaian simulasi.<li style="margin: 0px 0px 0.25em; padding: 0px;">Saat di play, jika rangkaian simulasi sudah benar dan sesuai, maka akan muncul output LED pada rangkaian sensor sentuh tersebutt dan motor sebagai penggerak keran</h2></div><div style="text-align: justify;">
</div><div style="text-align: justify;">
</div><div style="text-align: justify;">
</div><div style="text-align: justify;">B. Rangkaian Simulasi dan Prinsip Kerja</div><div style="text-align: justify;">
</div><div style="text-align: justify;"><div class="separator" style="clear: both; text-align: center;"></div><div class="separator" style="clear: both; text-align: center;">
</div></div>

Prinsip Kerja

Pertama-tama tegangan mengalir dari power supply ke rangkaian LM35, jika suhu <35 derajat maka rangkaian tidak akan berjalan, dan jika suhu >35 maka rangkaian akan berjalan yang ditandai dengan hidupnya LED, rangkaian ini mengalir ke relay dan terjadi switch dari kanan ke kiri yang menyebabkan rangkaian terhubung antara rangkaian LM35 dan power supply.

Arus mengalir dari power supply ke loop sensor LDR, LDR mendeteksi banyaknya cahaya, jika cahaya banyak dari timur maka sensor akan bergerak ke arah timur, dan arus yang mengalir menuju relay dan terjadi switch yang menggerakkan motor ke arah timur. begitu juga kesemua arah yang lainnya. dan jika terjadi hujan maka rain sensor akan berlogika satu dan rangkaian akan mengalir menuju relay dan terjadi switch yang menyebabkan rangkaian terputus. hal ini terjadi agar tidak terjadi konsleting.



The diagram illustrates a control system where an LDR sensor detects light intensity to control a motor's direction and a rain sensor to control a relay. The power supply provides energy to the LDR sensor and the relay. The relay acts as a switch, directing the motor's movement based on the sensor inputs.

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<div class="separator" style="clear: both; text-align: center;">
</div></div><div style="text-align: justify;"><div class="separator" style="clear: both;">C. Video</div><div class="separator" style="clear: both;">
</div><div class="separator" style="clear: both;">
</div><div class="separator" style="clear: both; text-align: center;"><object class="BLOG_video_class" contentid="81ee0f4d3fa2fdd1" height="326" id="BLOG_video-81ee0f4d3fa2fdd1" width="392"></object></div>
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5. File Download </div><div style="text-align: justify;">
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</div><div style="text-align: center;">- Download Proteus Rangkaian Simulasi</div><div style="text-align: center;">
</div><div style="text-align: center;"><div> </div><div> </div><div>- Download Video Simulasi Rangkaian</div><div> </div><div><div> </div><div> </div><div>- Download Datasheet LDR</div><div> </div><div></div>

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LM35</div><div style="text-align: center;"> </div>

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 </div><div> </div><div>- Download Library Rain Sensor</div><div> </div>

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<div style="text-align: center;"> Download Datasheet
Relay</div><div style="text-align: center;"> </div>

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<div style="text-align: center;"> Download Datasheet
Motor</div><div style="text-align: center;"> </div>

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<div style="text-align: center;"> Download Datasheet
Voltmeter</div><div style="text-align: center;"> </div>

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Resistor</div><div style="text-align: center;"> </div>

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Op-Amp</div><div style="text-align: center;"> </div>

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Dioda</div><div style="text-align: center;"> </div>

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<div style="text-align: center;"> Download Datasheet Rain
Sensor</div><div style="text-align: center;"> </div>

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nload" target="_blank"></div><div style="text-align: justify;"></div></div>

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Baterai</div><div style="text-align: center;"> </div>

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href="https://drive.google.com/u/0/uc?id=1YZnXsWwB70fHiMVNhZ3YmyTEAgXFKtyF&export=dow
nload" target="_blank"></div><div style="text-align: justify;"></div></div>