

DAFTAR ISI

ABSTRAK	Error! Bookmark not defined.
KATA PENGANTAR	Error! Bookmark not defined.
DAFTAR ISI	79
DAFTAR TABEL	81
DAFTAR GAMBAR	82
BAB I	Error! Bookmark not defined.
1.1 Latar Belakang	Error! Bookmark not defined.
1.2 Perumusan Masalah	Error! Bookmark not defined.
1.3 Pembatasan Masalah	Error! Bookmark not defined.
1.4 Tujuan Penelitian	Error! Bookmark not defined.
1.5 Manfaat Penelitian	Error! Bookmark not defined.
1.6 Sistematika Penulisan	Error! Bookmark not defined.
BAB II	Error! Bookmark not defined.
KAJIAN PUSTAKA	Error! Bookmark not defined.
2.1. <i>Smart Parking</i>	Error! Bookmark not defined.
2.1.1. Kategori <i>Smart Parking</i>	Error! Bookmark not defined.
2.1.2. Jenis <i>Smart Parking</i>	Error! Bookmark not defined.
2.2. Komponen Smart Rotary Parking	Error! Bookmark not defined.
2.2.1. Komponen Elektrik	Error! Bookmark not defined.
2.2.2. Komponen Mekanik.....	Error! Bookmark not defined.
BAB III	Error! Bookmark not defined.
METODE PERANCANGAN SMART ROTARY PARKING ..	Error! Bookmark not defined.
defined.	
3.1. Diagram Alur Proses Perancangan	Error! Bookmark not defined.
3.2. Perencanaan Smart Rotary Parking.....	Error! Bookmark not defined.
3.3. Perencanaan Komponen yang Dibutuhkan	Error! Bookmark not defined.
3.4. Metode Perancangan <i>Hardware</i>	Error! Bookmark not defined.
3.4.1. Metode Perancangan ruang parkir.....	Error! Bookmark not defined.
3.4.2. Metode Perancangan Pemasangan Sistem Transmisi	Error! Bookmark not defined.
defined.	
3.4.3. Metode Perancangan Motor Listrik	Error! Bookmark not defined.

3.4.4. Metode Penentuan MCB yang Digunakan.....	Error! Bookmark not defined.
3.4.5. Metode Penentuan Luas Penampang Kabel Konduktor....	Error! Bookmark not defined.
3.4.6. Metode Perancangan Torsi Elektromagnetik <i>Brake</i>	Error! Bookmark not defined.
3.4.7. Metode Perancangan Kecepatan Rotasi Ruang Parkir	Error! Bookmark not defined.
3.4.8. Metode Perancangan Ukuran Bangunan Smart Rotary Parking	Error! Bookmark not defined.
3.4.9. Metode Perancangan Pemasangan komponen elektrik	Error! Bookmark not defined.
3.4.10. Metode Perancangan Panel	Error! Bookmark not defined.
3.5. Perancangan Program Software	Error! Bookmark not defined.
3.5.1. Penentuan Jumlah Input/Output dan Pengalamatannya	Error! Bookmark not defined.
3.5.2. Pembuatan Program Kontrol.....	Error! Bookmark not defined.
BAB IV	Error! Bookmark not defined.
PERANCANGAN SMART ROTARY PARKING	Error! Bookmark not defined.
4.1. Perhitungan <i>Smart Rotary Parking</i>	Error! Bookmark not defined.
4.1.1. Perhitungan Ruang Parkir	Error! Bookmark not defined.
4.1.2. Perhitungan Transmisi Gear.....	Error! Bookmark not defined.
4.1.3. Perhitungan Motor 3 Fasa yang Dibutuhkan	Error! Bookmark not defined.
4.1.4. Perhitungan MCB	Error! Bookmark not defined.
4.1.5. Perhitungan Luas Penampang Kabel Konduktor	Error! Bookmark not defined.
4.1.6. Perhitungan Torsi Elektromagnetik <i>Brake</i>	Error! Bookmark not defined.
4.1.7. Perhitungan Kecepatan Rotasi Ruang Parkir	Error! Bookmark not defined.
4.1.8. Perhitungan Ukuran Bangunan <i>Smart Rotary Parking</i>	Error! Bookmark not defined.
4.2. Perancangan Panel	Error! Bookmark not defined.
4.3. Penempatan Komponen <i>Smart Rotary Parking</i>	Error! Bookmark not defined.
4.4. Spesifikasi Perancangan <i>Smart Rotary Parking</i>	Error! Bookmark not defined.
4.5. Pembahasan Hasil Perancangan <i>Smart Rotary Parking</i>	Error! Bookmark not defined.
BAB V	Error! Bookmark not defined.
KESIMPULAN DAN SARAN	Error! Bookmark not defined.

5.1. Kesimpulan	Error! Bookmark not defined.
5.2. Rekomendasi.....	Error! Bookmark not defined.
DAFTAR PUSTAKA.....	Error! Bookmark not defined.
LAMPIRAN.....	Error! Bookmark not defined.

DAFTAR TABEL

Tabel 2.1 Kemampuan Hantar Arus Terus Menerus.....**Error! Bookmark not defined.**

Tabel 3.1 Perancangan komponen yang dibutuhkan**Error! Bookmark not defined.**

Tabel 3.2 Penamaan dan pengalamatan input dan output .**Error! Bookmark not defined.**

Tabel 4.1 Berat tiap komponen**Error! Bookmark not defined.**

Tabel 4.2 Spesifikasi *smart rotary parking*.....**Error! Bookmark not defined.**

DAFTAR GAMBAR

- Gambar 2.1** *Automated Car Parking***Error! Bookmark not defined.**
- Gambar 2.2.** *Multi-Level Parking*.....**Error! Bookmark not defined.**
- Gambar 2.3.** *Rotary Parking***Error! Bookmark not defined.**
- Gambar 2.4** Pengasutan Bintang – Segitiga**Error! Bookmark not defined.**
- Gambar 2.5** Kabel NYM**Error! Bookmark not defined.**
- Gambar 2.6** MCB (*Miniature Circuit Breaker*)**Error! Bookmark not defined.**
- Gambar 2.7** Simbol MCB 1 fasa dan 3 fasa**Error! Bookmark not defined.**
- Gambar 2.8** (a) Simbol *push button NC* & (b) Simbol *push button NO***Error! Bookmark not defined.**
- Gambar 2.9** Bentuk Fisik dari *Push Button*.....**Error! Bookmark not defined.**
- Gambar 2.10** Bentuk Fisik dari *Pilot Lamp*.....**Error! Bookmark not defined.**
- Gambar 2.11** *Wiring Diagram* dan Bentuk fisik Sensor *Proximity* **Error! Bookmark not defined.**
- Gambar 2.12** Konfigurasi kabel tipe NPN dan PNP**Error! Bookmark not defined.**
- Gambar 2.13** Komponen Struktur Dasar PLC.....**Error! Bookmark not defined.**
- Gambar 2.14** Tampilan *software CX-Programmer***Error! Bookmark not defined.**
- Gambar 2.15** Contoh Penggunaan Instruksi LD dan LD NOT..... **Error! Bookmark not defined.**
- Gambar 2.16** Contoh Penggunaan Instruksi OUT dan OUT NOT. **Error! Bookmark not defined.**
- Gambar 2.17** Contoh Penggunaan Instruksi END.....**Error! Bookmark not defined.**
- Gambar 2.18** Contoh Penggunaan Instruksi IL (02) dan ILC (03). **Error! Bookmark not defined.**
- Gambar 2.19** Contoh Penggunaan Instruksi JMP dan JME **Error! Bookmark not defined.**
- Gambar 2.20** Contoh Penggunaan Instruksi SET dan RESET **Error! Bookmark not defined.**
- Gambar 2.21** Contoh Penggunaan Instruksi DIFU dan DIFD..... **Error! Bookmark not defined.**
- Gambar 2.22** Contoh Penggunaan Instruksi KEEP.....**Error! Bookmark not defined.**
- Gambar 2.23** Contoh Penggunaan Instruksi TIM.....**Error! Bookmark not defined.**
- Gambar 2.24** Contoh Penggunaan Instruksi CNT.....**Error! Bookmark not defined.**
- Gambar 2.25** Contoh Penggunaan Instruksi SFT**Error! Bookmark not defined.**
- Gambar 2.26** Contoh Penggunaan Instruksi MOV.....**Error! Bookmark not defined.**

Gambar 2.27 Contoh Penggunaan Instruksi CMP	Error! Bookmark not defined.
Gambar 2.28 PLC OMRON tipe CP1L L20DR-A.....	Error! Bookmark not defined.
Gambar 2.29 Bagian-Bagian PLC OMRON tipe CP1L L20DR-A	Error! Bookmark not defined.
Gambar 2.30 <i>Electromagnetic brake</i>	Error! Bookmark not defined.
Gambar 2.31 <i>Hollow pin chain</i>	Error! Bookmark not defined.
Gambar 2.32 <i>Sprocket</i>	Error! Bookmark not defined.
Gambar 2.33 <i>Bearing</i>	Error! Bookmark not defined.
Gambar 3.1 Diagram alur perancangan.....	Error! Bookmark not defined.5
Gambar 3.2 Perancangan ruang parkir	Error! Bookmark not defined.
Gambar 3.3 Sistem transmisi.....	Error! Bookmark not defined.
Gambar 3.4 Penentuan ukuran sprocket 3, 4, 5, dan 6	Error! Bookmark not defined.
Gambar 3.5 Tampak atas bangunan	Error! Bookmark not defined.
Gambar 3.6 Penempatan komponen-komponen pada smart rotary parking.....	Error! Bookmark not defined.
Gambar 4.1 Ukuran ruang parkir.....	Error! Bookmark not defined.
Gambar 4.2 Ukuran transmisi gear.....	Error! Bookmark not defined.
Gambar 4.3 Ukuran panjang dan lebar bangunan	Error! Bookmark not defined.
Gambar 4.4 Pengawatan panel	Error! Bookmark not defined.
Gambar 4.5 Pengawatan keseluruhan.....	Error! Bookmark not defined.
Gambar 4.6 Komponen <i>smart rotary parking</i>	Error! Bookmark not defined.
Gambar 4.7 Komponen ruang parkir.....	Error! Bookmark not defined.