



TEST REPORT

Test Report No.: 67627 - 3279 / 2012 - 2013

Programmable Street Light Control Switch 3 Phase

CETL

NABL ACCREDITED LABORATORY



CENTRAL ELECTRICAL TESTING LABORATORY

**DEPARTMENT OF INDUSTRIES AND COMMERCE
GOVERNMENT OF TAMILNADU**

KAKKALUR-602 003, TIRUVALLUR DISTRICT, TAMILNADU

☎ (044) 27660384 / 27660302 (Telefax)
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CENTRAL ELECTRICAL TESTING LABORATORY



DEPARTMENT OF INDUSTRIES AND COMMERCE
GOVERNMENT OF TAMILNADU
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CETL

Thiru. C. Selvam,
Deputy Director (E & E).

Dated: 02.03.2013

To
M/s. Synergic Systems,
Plot No.: 6/6, Ist & IInd Floor, Katori Mill,
Near Telephone Exchange,
Rajendar nagar Industrial Area,
Mohan Nagar, Ghaziabad (U.P.)- 201 007

Rc. No.: 321 / A2 / 2013, dated : 02.03.2013

Sir,

Sub.: Central Electrical Testing Laboratory, Kakkalur - Electrical
Accessories - Despatch of Test Report and Return of samples -
Regarding

Ref.: Your Letter No.: SS / TT / 003, dt : 16.02.2013.

I am sending herewith the Test Report bearing the No.: 67627 - 3279 / 2012
2013 for your sample sent for testing on 25.02.2013.

The remnants shall be taken delivery either by you or by the firm as
applicable on or before 31.05.2013, with an authorisation letter without fail. Otherwise, the
remnants will be disposed off at our end as per Government rules and you will have
no claim over this.

2.3.13
Deputy Director (E & E).

Encl.: One Test Report

CENTRAL ELECTRICAL TESTING LABORATORY



DEPARTMENT OF INDUSTRIES AND COMMERCE
GOVERNMENT OF TAMILNADU
KAKKALUR-602 003 , TIRUVALLUR DISTRICT, TAMILNADU
(044) 27660384 / 27660302



TEST REPORT

TEST REPORT No. 67627 - 3279 / 2012 - 2013	TOTAL No. OF PAGES 11	PAGE 1 of 11
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CUSTOMER DETAILS

M/s. Synergic Systems,
PLOT No.: 6/6, 1st & IInd Floor, Katori Mill,
Near Telephone Exchange,
Rajendar nagar Industrial Area,
Mohan Nagar, Ghaziabad (U.P.) - 201 007

Ref. No. & Date : SS / TT / 003
dt : 16.02.2013.
Code No. : ---
Seal : ---
Date of Receipt : 25.02.2013
Period of testing : 25.02.2013 to 02.03.2013

SAMPLE DETAILS

Item : Programmable Street Light Control
Switch 3 Phase

Condition when received : Physically satisfactory
Brand : SYNER
Rating : 30 kW, p.f. 0.6 lagging, IP 54
Voltage Range : 160 to 260 V
Rated voltage : 230 V, AC, 50 Hz
Quantity : 1 No.

REFERENCE : DGS&D's specification.

TEST CHARACTERISTICS : Customer's request

Number of Samples required
as per sampling procedure : Does not arise

GENERAL REMARKS : The Sample, in so far as it has been examined and tested, test results are noted against each.


ISSUING AUTHORITY
DEPUTY DIRECTOR
of Industries & Commerce (E & E)
CENTRAL ELECTRICAL TESTING LABORATORY,
KAKKALUR - 602 003.

Note:

1. This test report relates only to the products tendered for testing.
2. This test report shall not be reproduced, except in full without the written approval of the issuing authority.
3. In case any clarification on the issued test report, it has to be raised within one month from the date of receipt of the test report.
4. In case any dispute, the decision of The Deputy Director (E&E), Central Electrical Testing Laboratory, Kakkalur - 602 003 shall be final and binding.
5. The specified ambient conditions were maintained during the test.
6. The tests described in S.No. was/were sub-contracted according to the established procedure of this Laboratory.



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Test Report No. 67627 - 3279 / 2012 - 2013

Page 2 of 11

Test Report on Programmable Street Light Control Switch 3 Phase (Customer's request)

Sl.No.	Test and Requirements	Clause	Results	Remarks
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1(a) **Visual Examination**

Passes

The sample (Programmable Street Light Control Switch) shall be suitable to be operated on Three phase supply, with each phase 160V to 260V, 50 \pm 3Hz and have programming feature to switch ON/OFF the load (street lights)

Function satisfactorily

1(b) **Construction**

Conforms

The sample shall be housed in a sheet metal duly powder coated enclosure.

Provided

2. **Real Time Clock**

Passes

The sample shall have inbuilt real time clock (RTC) with battery backup. It shall display the time on LCD / LED, the timing accuracy shall be ± 1.0 Seconds over entire range of environmental operating conditions i.e. 0 to 55°C & 45°C at 95% RH.

RTC provided with LCD
Display
Function satisfactorily

3. **Programming Features**

Passes

i) It shall be able to switch ON/OFF the rated load (street lights) at rated power factor at pre-defined time (104.2A, AC per phase) (Current Calculated @ 160 V)

Function satisfactorily

ii) All the three phases shall have the facility to single default setting (company programmed) and define (user programmable) to pre-program the switch, ON/OFF time for one year with minimum 12 programmes spread over a year independently.

Provided

Place :

Date :




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Test Report No. 67627 - 3279 / 2012 - 2013

Page 3 of 11

Test Report on Programmable Street Light Control Switch 3 Phase (Customer's request)

Sl.No.	Test and Requirements	Clause	Results	Remarks
	iii) It shall have the provision of intermediate switching so that any phase can be switched OFF and ON before final OFF either default or define program.		Provided	
	iv) The accuracy of the set time of switching ON/OFF the load shall be ± 60 Seconds		Complied	
	v) It shall have the provisions to switch ON/OFF the rated load (streetlights) manually, by by-passing the program circuit.		Provided	
	vi) It shall work even one or two phase fails.		Function satisfactorily	
4.	<u>Light Functional Test</u> The sample shall have the provision to switch ON the load (street lights) when ambient light level falls to 40 ± 10 Lux and switch OFF when ambient level goes to 80 ± 10 Lux.		Light ON : 39 Lux Light OFF : 79 Lux	Passes
5.	<u>Auto Recovery</u> The sample shall have an auto recovery relay (ARR) that can facilitate automatic switching ON/OFF of load on recovery of mains supply after power failure.		Provided	Conforms
6.	<u>Electrical Protection</u> Following electrical protections shall be provided for load			Passes
a)	i. Over voltage: $\phi 1$ Input voltage crosses 260 ± 5 V		264 V	
	ii. Auto restart for over voltage $\phi 1$		258 V	
	iii. Over voltage: $\phi 2$ Input voltage crosses 260 ± 5 V		263 V	
	iv. Auto restart for over voltage $\phi 2$		257 V	
	v. Over voltage: $\phi 3$ Input voltage crosses 260 ± 5 V		263 V	
	vi. Auto restart for over voltage $\phi 3$		258 V	

Place :

Date :




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Test Report No. 67627 - 3279 / 2012 - 2013			Page 4 of 11	
Test Report on Programmable Street Light Control Switch 3 Phase (Customer's request)				
Sl.No.	Test and Requirements	Clause	Results	Remarks
b)	i. Under voltage: Ø 1 Input voltage crosses 160 ± 5V		159 V	
	ii. Auto restart for under voltage Ø 1		163 V	
	iii. Under voltage: Ø 2 Input voltage crosses 160 ± 5V		158 V	
	iv. Auto restart for under voltage Ø 2		164 V	
	v. Under voltage: Ø 3 Input voltage crosses 160 ± 5V		157 V	
	vi. Auto restart for under voltage Ø 3		163 V	
c)	i. Over Load protection 10 KW : Ø 1		107 Amps	
	ii. Over Load protection 10 KW : Ø 2		106 Amps	
	iii. Over Load protection 10 KW : Ø 3		106 Amps	
d)	Spikes and surges protection at input for the sample.		Provided	
e)	The insulation resistance between live parts and earth terminal at 500V (DC) shall be 50Meg Ohms (minimum).		Above 100 Megohms	
f)	HV 1.5 kV (AC) for one minute between live parts (current carrying parts) and earth terminal. Without breakdown of insulation		Withstood	
g)	Earthing leakage resistance shall not be more than 0.1 Ohms		Less than 0.1 ohms	
7.	<u>Environmental Test</u>			Passes
7.a.	<u>Burn-in test</u>			
	Temp.: 55°C ±2°C Duration: 48 Hours			
	With power ON at rated Load (104.2 A, AC) (Current Calculated @ 160 V)			
	During the burn in test, the sample shall be functional with duty cycle of 5 minutes ON ,		During the test the sample function with load satisfactorily	

Place :

Date :



[Signature]
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Test Report No. 67627 - 3279 / 2012 - 2013

Page 5 of 11

Test Report on Programmable Street Light Control Switch 3 Phase (Customer's request)

Sl.No.	Test and Requirements	Clause	Results	Remarks
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5 minutes OFF, The switching accuracy shall be within $\pm 60S$ from the pre-programmed time

After recovery of 1Hr. The following tests shall be conducted.

7.a.1 Visual Examination

There shall be no charred / smoked / cracks or deformation.

No visual defects observed

7.a.2 Real Time Clock

As specified at test Sl. No. 2

Function satisfactorily

7.a.3 Programming Feature

As specified at test Sl. No. 3 (i to vi)

Function satisfactorily

7.a.4 Light Level Test

As specified at test Sl. No. 4

Light ON : 38 Lux
Light OFF : 81 Lux

7.a.5 Auto Recovery

As specified at test Sl. No. 5

Provided

7.a.6 Electrical Protection

As specified at test Sl. No.6 (a to g)

- a) i. 263 V
- ii. 257 V
- iii. 262 V
- iv. 256 V
- v. 264 V
- vi. 258 V
- b) i. 158 V
- ii. 163 V
- iii. 157 V
- iv. 162 V
- v. 158 V
- vi. 162 V

Place :

Date :



[Signature]
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Test Report No. 67627 - 3279 / 2012 - 2013

Page 6 of 11

Test Report on Programmable Street Light Control Switch 3 Phase (Customer's request)

Sl.No.	Test and Requirements	Clause	Results	Remarks
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- c) i. 106 Amps.
- ii. 107 Amps.
- iii. 106 Amps.
- d) Provided
- e) Above 100 Megohms
- f) Withstood
- g) Less than 0.1 Ohms.

7.b Dry Heat Test

IS:9000

Passes

Temp.: $55^{\circ}\text{C} \pm 2^{\circ}\text{C}$, Duration: 16 Hrs. (P3/sec5) -1977

During the Dry Heat Test, the sample shall be functional with a duty cycle of 5 minutes ON, 5 minutes OFF. The switching accuracy shall be within $\pm 60\text{S}$ from the pre-programmed time. After recovery of 1 Hr. The following tests shall be conducted:

During the test the sample function satisfactorily

7.b.1 Visual Examination

There shall be no charred / smoked / cracks or deformation.

No visual defects observed

7.b.2 Real Time Clock

As specified at test Sl. No. 2

Function satisfactorily

7.b.3 Programming Feature

As specified at test Sl.No. 3 (i to vi)

Function satisfactorily

7.b.4 Light Level Test

As specified at test Sl. No. 4

Light ON : 39 Lux
Light OFF : 82 Lux

7.b.5 Auto Recovery

As specified at test Sl.No. 5

Provided

Place :

Date :



[Signature]
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Test Report No. 67627 - 3279 / 2012 - 2013

Page 7 of 11

Test Report on Programmable Street Light Control Switch 3 Phase (Customer's request)

Sl.No.	Test and Requirements	Clause	Results	Remarks
--------	-----------------------	--------	---------	---------

7.b.6 Electrical Protection

As specified at test Sl. No.6 (a to g)

- a) i. 264 V
- ii. 259 V
- iii. 263 V
- iv. 257 V
- v. 263 V
- vi. 258 V
- b) i. 159 V
- ii. 164 V
- iii. 158 V
- iv. 163 V
- v. 158 V
- vi. 163 V
- c) i. 106 Amps.
- ii. 107 Amps.
- iii. 107 Amps.
- d) Provided
- e) Above 100 Megohms
- f) Withstood
- g) Less than 0.1 Ohms.

7.c Damp Heat (Cyclic) Test

IS:9000

Passes

Temp.: $45^{\circ}\text{C} \pm 2^{\circ}\text{C}$ Humidity (RH): $95\% \pm 3\%$ (P5/sec1) -1981

duration : Two cycles (24Hrs. each)

During the Damp Heat Test, the sample shall be functional with a duty cycle of 5 minutes ON, 5 minutes OFF. The switching accuracy shall be within $\pm 60\text{S}$ from the pre-programmed time.

After recovery of 1 Hr. The following tests shall be conducted

During the test the sample function satisfactorily

Place :

Date :



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Test Report No. 67627 - 3279 / 2012 - 2013

Page 8 of 11

Test Report on Programmable Street Light Control Switch 3 Phase (Customer's request)

Sl.No.	Test and Requirements	Clause	Results	Remarks
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7.c.1 **Visual Examination**

There shall be no charred / smoked / cracks or deformation.

No visual defects observed

7.c.2 **Real Time Clock**

As specified at test Sl. No. 2

Function satisfactorily

7.c.3 **Programming Feature**

As specified at test Sl.No. 3 (i to vi)

Function satisfactorily

7.c.4 **Light Level Test**

As specified at test Sl. No. 4

Light ON : 41 Lux

Light OFF : 83 Lux

7.c.5 **Auto Recovery**

As specified at test Sl. No. 5

Provided

7.c.6 **Electrical Protection**

As specified at test Sl.No.6 (a to g)

- a) i. 264 V
- ii. 257 V
- iii. 263 V
- iv. 258 V
- v. 262 V
- vi. 256 V
- b) i. 158 V
- ii. 162 V
- iii. 159 V
- iv. 163 V
- v. 157 V
- vi. 162 V
- c) i. 107 Amps.
- ii. 106 Amps.
- iii. 106 Amps.
- d) Provided
- e) Above 100 Megohms
- f) Withstood
- g) Less than 0.1 Ohms.

Place :

Date :




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Test Report No. 67627 - 3279 / 2012 - 2013			Page 9 of 11	
Test Report on Programmable Street Light Control Switch 3 Phase (Customer's request)				
Sl.No.	Test and Requirements	Clause	Results	Remarks

- 7.d. **Cold Test** IS:9000 Passes
Temp.: $0^{\circ}\text{C} \pm 1^{\circ}\text{C}$, Duration: 4 Hours (P2/sec4) -1977
During the Cold Test, the sample shall be functional with a duty cycle of 5 minutes ON, 5 minutes OFF. The switching accuracy shall be within $\pm 60\text{S}$ from the pre-programmed time.
After recovery of 1 Hr. The following tests shall be conducted:
- 7.d.1 **Visual Examination**
There shall be no charred / smoked / cracks or deformation. No visual defects observed
- 7.d.2 **Real Time Clock**
As specified at test Sl. No. 2 Function satisfactorily
- 7.d.3 **Programming Feature**
As specified at test Sl. No. 3 (i to vi) Function satisfactorily
- 7.d.4 **Light Level Test**
As specified at test Sl. No. 4
Light ON : 40 Lux
Light OFF : 79 Lux
- 7.d.5 **Auto Recovery**
As specified at test Sl. No. 5 Provided
- 7.d.6 **Electrical Protection**
As specified at test Sl. No.6 (a to g)
a) i. 263 V
ii. 258 V
iii. 264 V
iv. 259 V
v. 262 V
vi. 257 V
b) i. 158 V
ii. 164 V
iii. 157 V

Place :

Date :




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Test Report No. 67627 - 3279 / 2012 - 2013

Page 10 of 11

Test Report on Programmable Street Light Control Switch 3 Phase (Customer's request)

Sl.No.	Test and Requirements	Clause	Results	Remarks
--------	-----------------------	--------	---------	---------

iv.163 V

v. 158 V

vi.163 V

c) i. 107 Amps.

ii. 106 Amps.

iii.106 Amps.

d) Provided

e) Above 100 Megohms

f) Withstood

g) Less than 0.1 Ohms.

8 Enclosure

Passes

8.1 Protection against Dust Test (IP-54)

The dust test shall be conducted as specified in clause 7.5 of IS:12063 for 2 Hours.

No ingress of dust inside the sample.
After the test, sample function satisfactorily.

Ingress of dust is not totally prevented. But it shall not enter in sufficient quantity to interfere with the satisfactory operation of the sample.

8.2 Protection against splashing of water Test (IP-54)

The splashing of water test shall be conducted as specified in clause 8.4 of IS:12063 for 10 min.

No ingress of water inside the sample.
After the test, sample function satisfactorily.

The sample shall have such a protection that splashing of water from any direction for 10 minutes shall have no harmful effect on its functioning.

Place :

Date :



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Test Report No. 67627 - 3279 / 2012 - 2013			Page 11 of 11	
Test Report on Programmable Street Light Control Switch 3 Phase (Customer's request)				
Sl.No.	Test and Requirements	Clause	Results	Remarks

8.3 Pad lock arrangement

Enclosure shall have arrangement to lock using pad lock.

Provided

8.4 Mounting arrangement

Enclosure shall have mounting arrangement so that it can be mounted on any type of poles.

Provided

Place :

Date :




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KAKKALUR - 602 003.

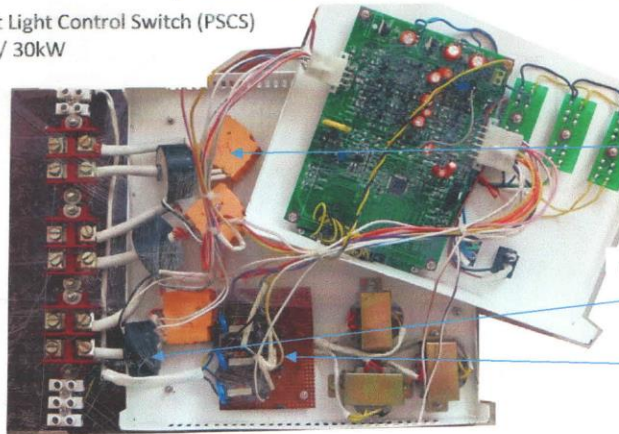
SYNERGIC SYSTEMS,
6/6, 1st & 2nd Floor, Katori Mill, Rajender Nagar Ind. Area,
Mohan Nagar, Ghaziabad - 201007

Tel.: 0120 4553120
Web.: www.syner.in

Test Report No. 67605-3257/2012-2013 & 67627-3279/2012-13

Programmable Street Light Control Switch (PSCS)
- Three Phase 18kW / 30kW

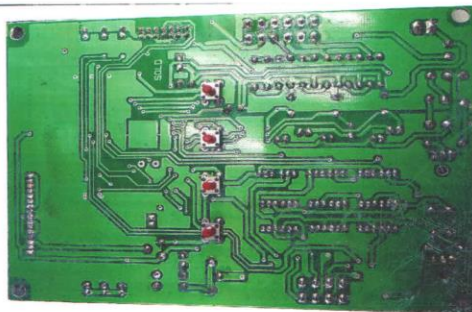
Complete Board
with Controls



Power Relay 6V
Load capacity :
75A or 120Amps
3 Nos.

Current Transformer

Line Filter with MOV



Control Circuit Board – Front End



Control Circuit Board – Component End



Power Relay SE-PR-75 : 6V / 75Amp. for 18kW
Power Relay SE-PR-120 : 6V / 120Amp. for 30kW

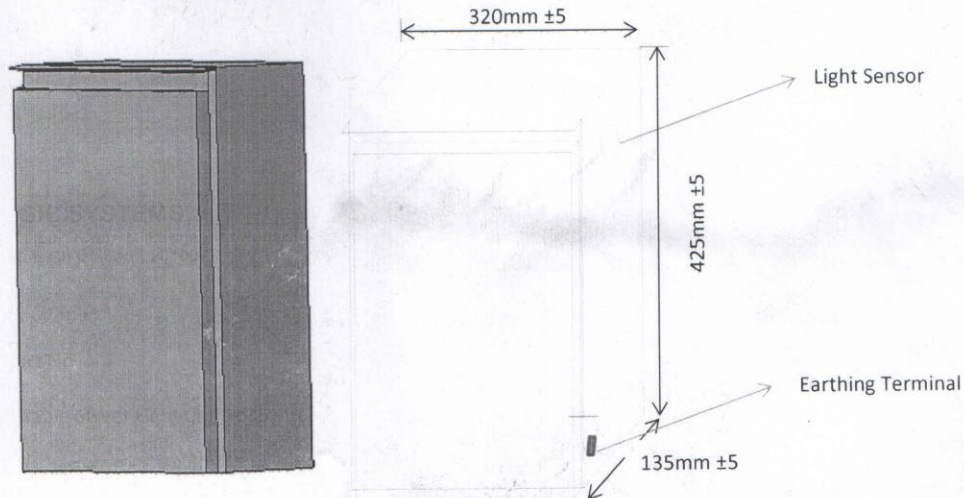


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2-3-13
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KAKKALUR - 602 003.

Test Report No.

Test Report No.: 67625-3257/2012-13 & 67627-3279/2012-13

Programmable Street Light Control Switch (PSCS)- Outer Box dimensions



Dimensions: 320mm x 425mm x 135mm general tolerance ± 10 mm, Sheet thickness 1.2 mm

Programmable Street Light Control Switch for 3 Phase Control

Rating	1.	18kW – (6kW on each Phase)	Model No.: PSCS 3Ø 18
	2.	30kW – (10kW on each Phase)	Model No.: PSCS 3Ø 30

Subjected drawing can be amended as per consignee specification, if required.

For Synergic Systems,

Proprietor




DEPUTY DIRECTOR
of Industries & Commerce (E & E)
CENTRAL ELECTRICAL TESTING LABORATORY,
KAKKALUR - 602 003.

SYNERGIC SYSTEMS,
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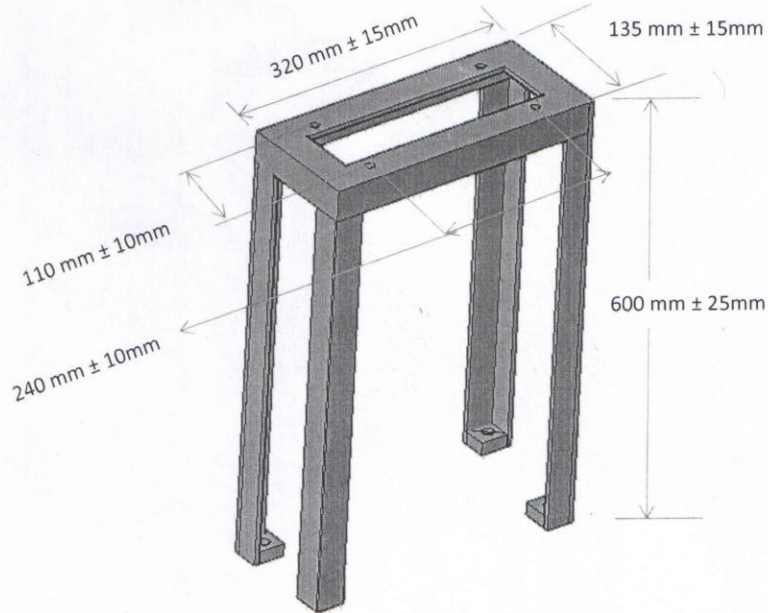
Tel.: 0120 4553120
Web.: www.syner.in

Test Report No.

Test Report No. 67605-3257/2012-13 & 67627-3279/2012-13

Programmable Street Light Control Switch (PSCS), Mounting Arrangement (Rectangular - Shape)
- Three Phase 18kW / 30kW

Product Drawing



Material: MS Angle, Thickness = 5mm, Angle : 40 x 40 x 5mm, Hole Ø 10mm - 6 Nos.

Subjected Drawing can be amended to user requirement, if required.

For Synergic Systems,

Proprietor



Signature
2-3-13
DEPUTY DIRECTOR
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SYNERGIC SYSTEMS,

6/6, 1st & 2nd Floor, Katori Mill, Rajender Nagar Ind. Area,
Mohan Nagar, Ghaziabad - 201007

Tel.: 0120 4553120

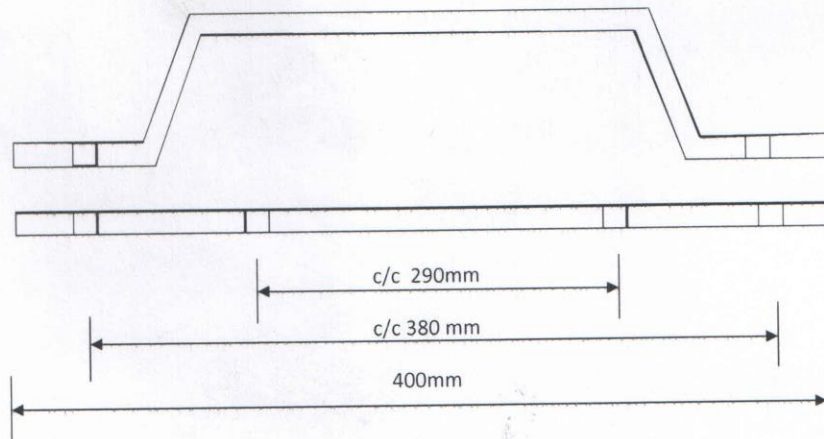
Web.: www.syner.in

E-mail : syner07@gmail.com

Test Report No. 67605-3257/2012-13 & 67627-3279/2012-13

Programmable Street Light Control Switch (PSCS)- Mounting Arrangement Clamp-Rectangular

Product Drawing



Material: MS Flat, Thickness = 2.5mm, Width = 20mm, Hole Ø 10mm - 6 Nos.

Subjected drawing can be amended as per consignee specification, if required.

For Synergic Systems,

Proprietor



[Signature]
2-3-13
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Mohan Nagar, Ghaziabad - 201007

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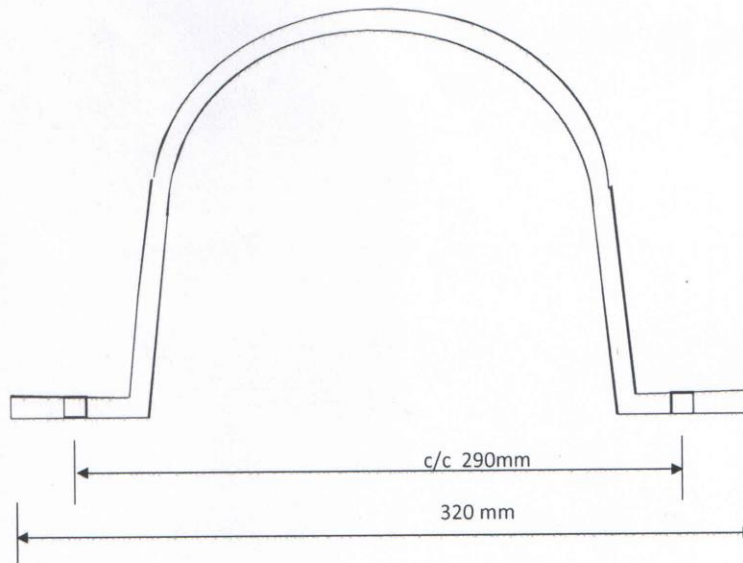
Web.: www.syner.in

E-mail : syner07@gmail.com

Test Report No. 67605-3257/2012-13 & 67627-3279/2012-13

Programmable Street Light Control Switch (PSCS)- Mounting Arrangement Clamp- circular

Product Drawing



Material: MS Flat, Thickness = 2.5mm, Width = 20mm, Hole \varnothing 10mm - 2 Nos.

Subjected drawing can be amended as per consignee specification, if required.

For Synergic Systems,

Proprietor




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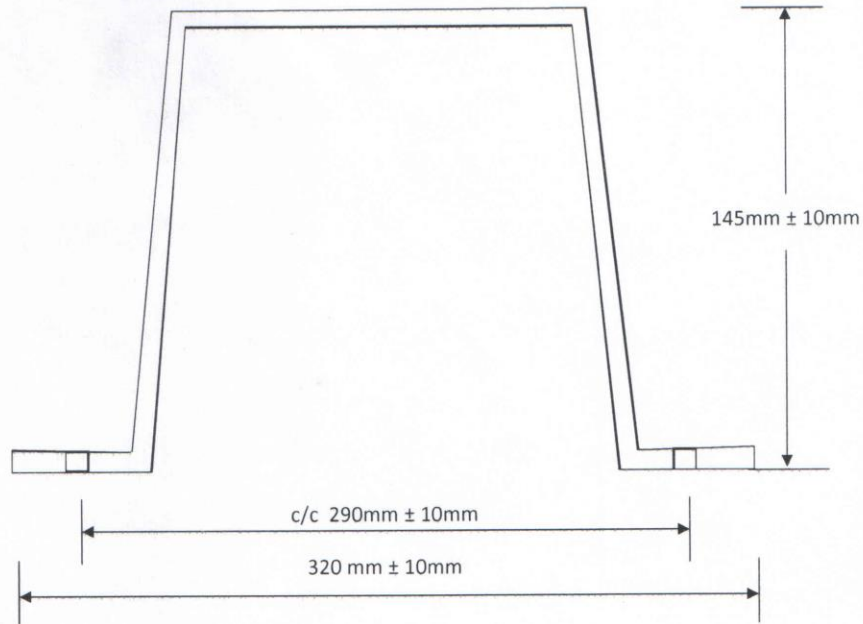
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6/6, 1st & 2nd Floor, Katori Mill, Rajender Nagar Ind. Area,
Mohan Nagar, Ghaziabad - 201007

Tel.: 0120 4553120
Web.: www.syner.in
E-mail : syner07@gmail.com

Test Report No. *67605 - 3259/2012-13 & 67627 - 3279/2012-13*

Programmable Street Light Control Switch (PSCS)- Mounting Arrangement Clamp- I - Shape

Product Drawing



Material: MS Flat, Thickness = 2.5mm, Width = 20mm, Hole Ø 10mm - 2 Nos.

Subjected drawing can be amended as per consignee specification, if required.

For Synergic Systems,

Proprietor



[Signature]
28-3-13
DEPUTY DIRECTOR
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