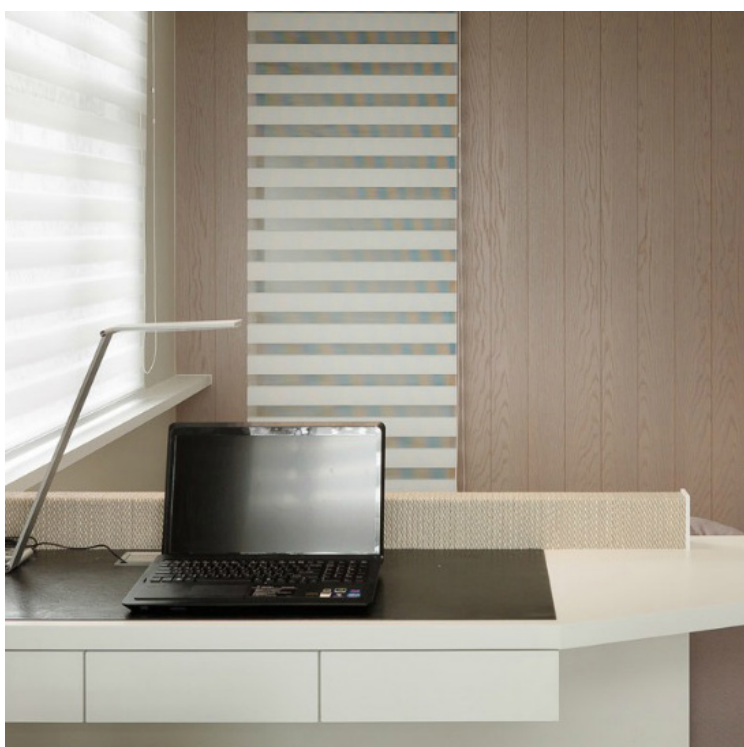




Plug & Play

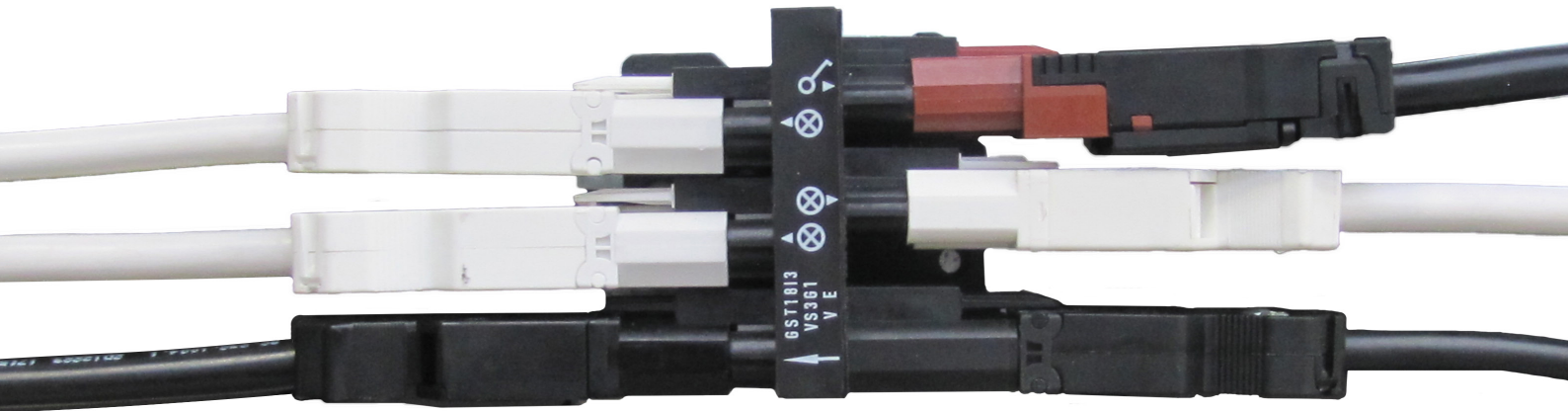
Domestic Wiring System



50-70%

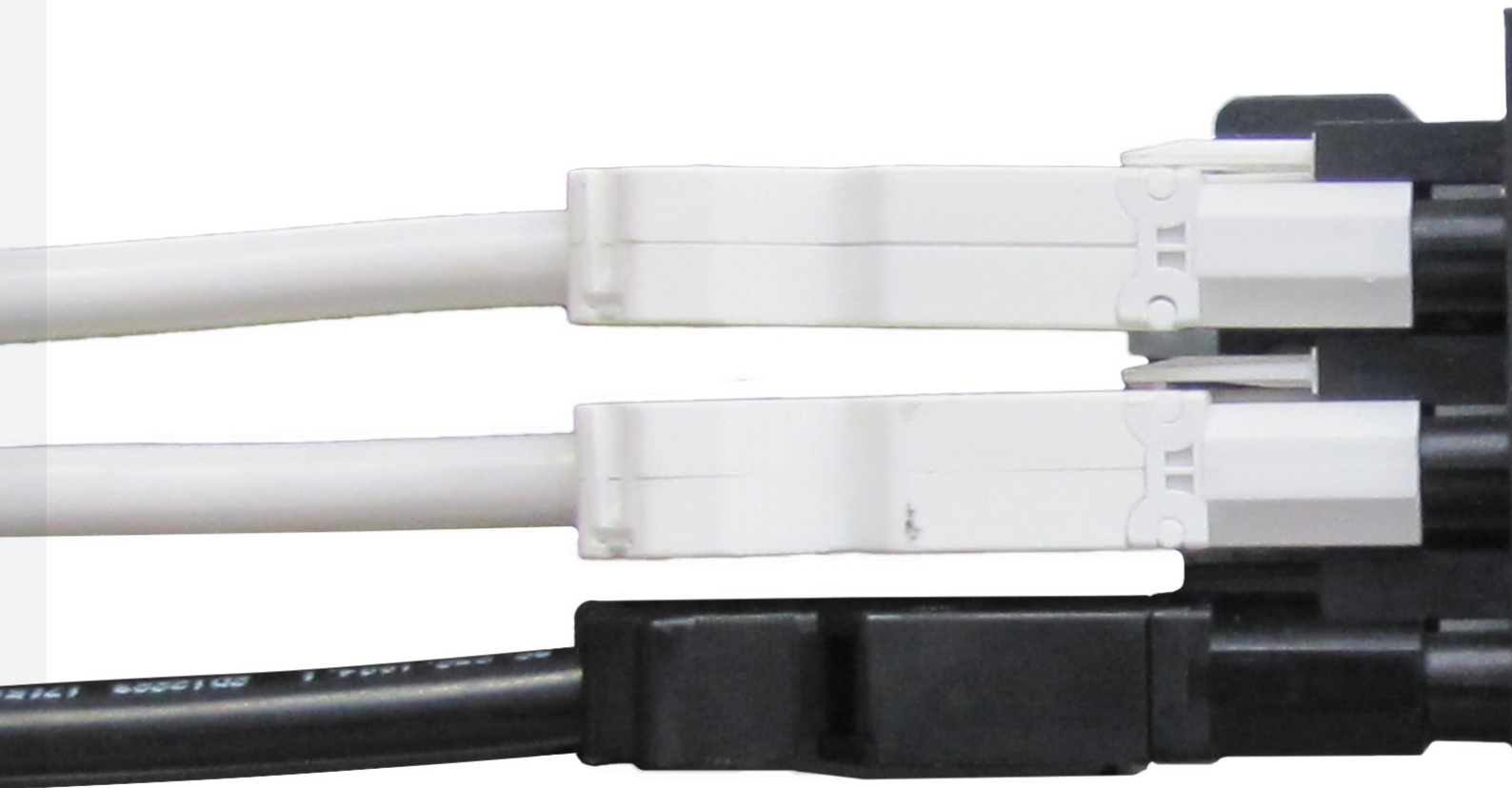
Reduced Labour Cost Per Installation

A TOTAL SOLUTION FOR ALL LIGHTING & POWER CONNECTIONS



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Fast, Flexible, Efficient, Plug & Play Domestic Wiring System

THE GESIS® CONNECTOR SYSTEM

gesis® – one name, one idea, an unparalleled success story! With pluggable electrical installation, Wieland has been the unchallenged market leader for 30 years. No wonder since time savings of 70 % and cost reductions of 30 % always speak for themselves.

The benefits of the plug-and-play principle are apparent everywhere: No more cutting to length, stripping and threading into terminals: gesis® system components are industrially pre-assembled and tested. Everything fits perfectly, and only needs to be plugged together on site. gesis® is the standard for safe and error-free installation.

The gesis® system comprises connectors, radiocontrolled switching units, devices for decentralized building automation and pluggable distribution boxes for state-of-the-art facility management, cables, and busbar and low voltage systems.

gesis® CON is the ingenious principle for building installation technology – in high-rise buildings just as in family homes, and from the basement to the roof. The unique variety of more than 5,000 components offers solutions for any kind of electrical installation.

EMBRACING A NEW WAY OF THINKING

Wieland **gesis®** 3 & 5 pole connection solutions provide a fast and flexible connection system. 50-70% reduced labour cost per installation providing power and control to lighting and power directly from the switch.

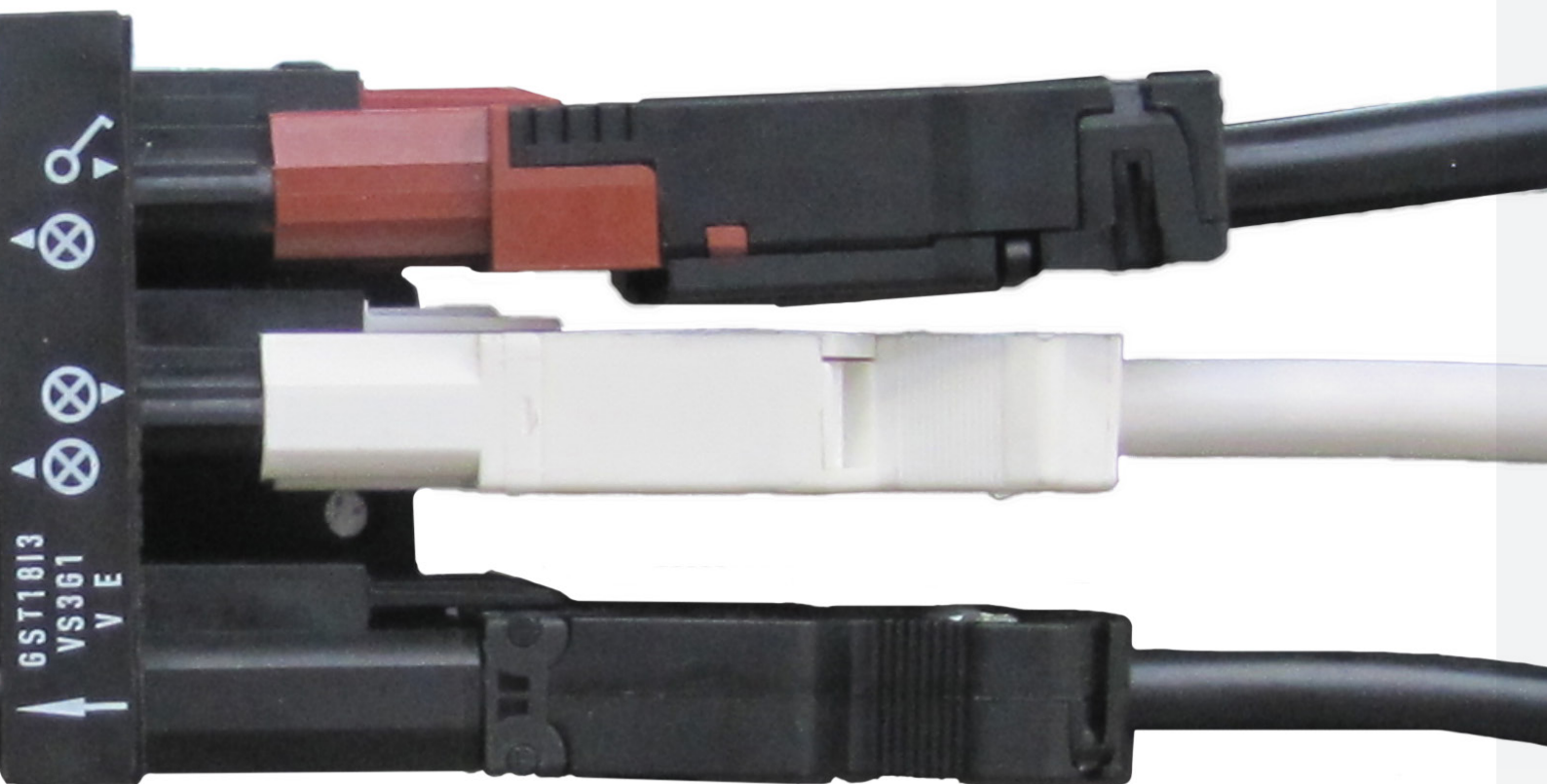
This unique 3 & 5 pole installation, provides all the advantages of a true plug & play solution required for lighting and power designers and end users in modern buildings. All required components can be configured to suit any typical lighting or power installation.

WHAT IS PLUG & PLAY?

With the Wieland **gesis®** connection system, connections can be made without tools simply by plugging in.

Single or multiple lights can be mixed and matched from the same switch. This provides a total solution for all lighting and power connections.

This Plug & Play system provides the latest German lighting and power connection technology for designers, installers, builders and end users.



WHAT ARE THE ADVANTAGES?

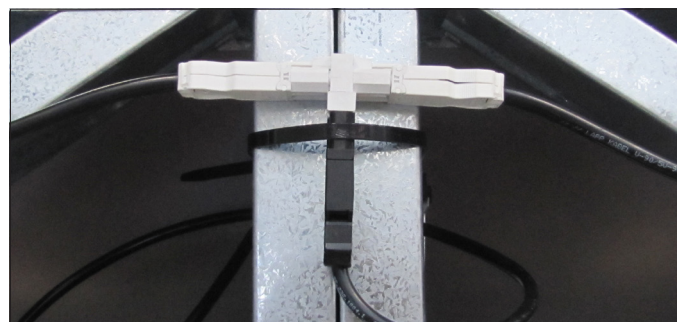
- » **Power and control** in a single 3 & 5 pole solution allows for effective connection and installation of light fittings, switches and power outlets.
- » **Scalable and flexible**, can be expanded or reduced to suit any installation requirements.
- » Light fittings are supplied with **pre-terminated cables**, so Plug & Play.
- » **Mechanical stability** provides easy, fast and safe connections.
- » The **multi pole distribution blocks** allows for multiple connections, reducing the number of components required per circuit.
- » **No termination** or segregation is required. This enables easy connection of luminaires and switches for any installation.
- » **Pre-wired** connections save installation time, eliminating wire errors and significantly reducing labour costs.
- » **Coded connections** ensure correct polarity.
- » Components **can be reused** or added to at any time.
- » Inter connection leads come in **1m to 8m lengths** in steps of 1m.

INSTALLATION REQUIREMENTS

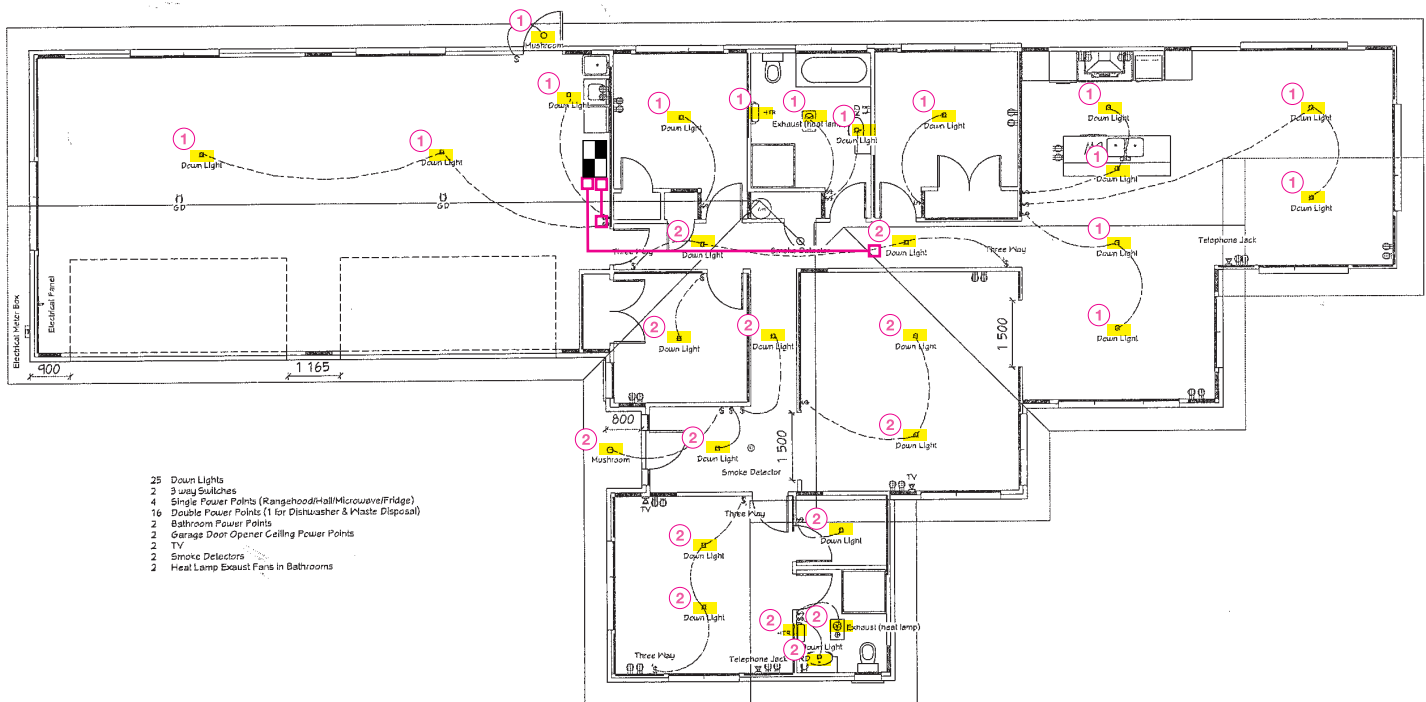
Only Teubel Meter and Distribution Boards are to be used for Plug & Play Domestic Wiring System. Each Distribution Board is prewired and fitted with LS Switchgear.

All cable is made to NZ colour codes AS/NZ standard with each lead tested and approved.

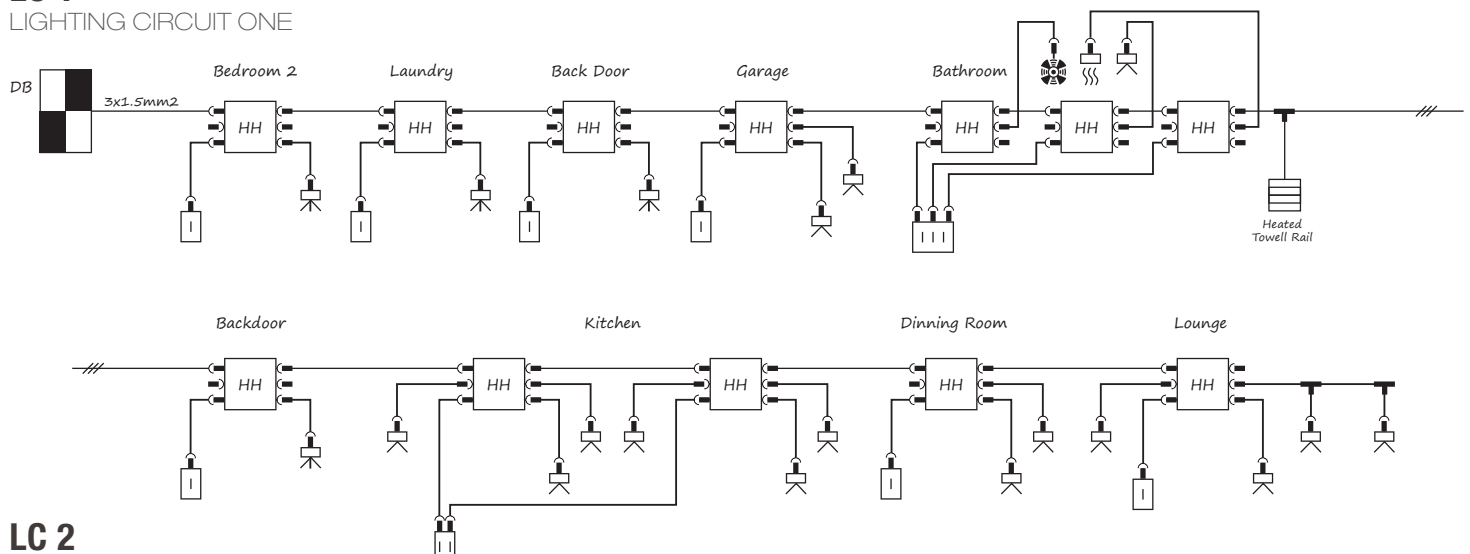
- » **(AS/NZS 5000.1)**
- » **(AS/NZS 5000.2)**



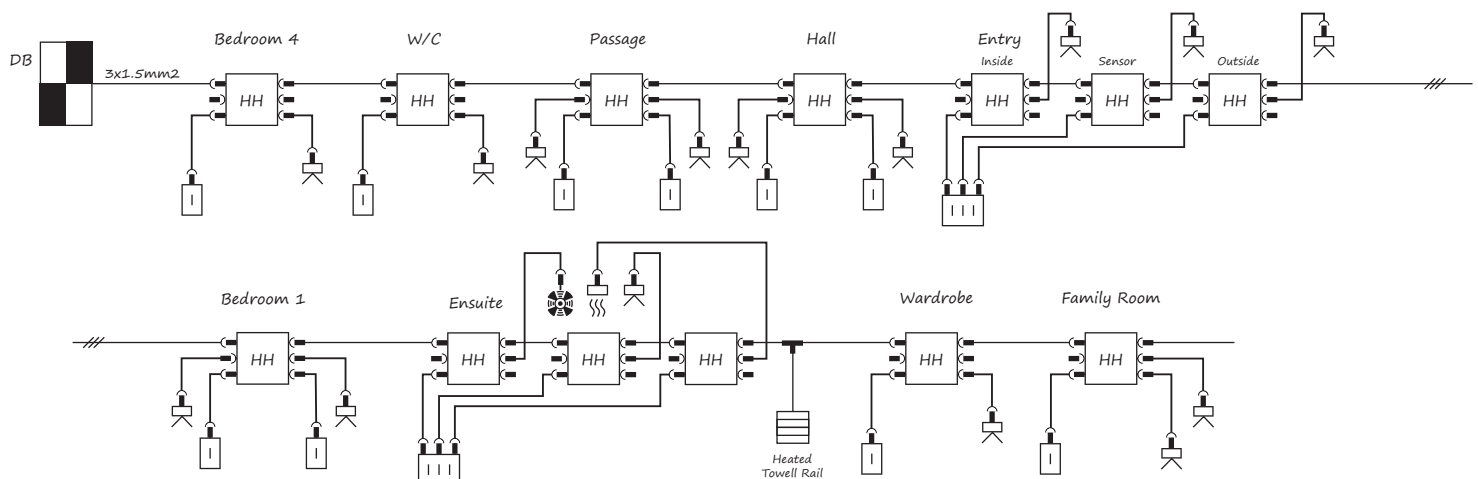
PLUG & PLAY LIGHTING CIRCUITS (ALL LIGHTING CIRCUITS ARE FOR LED LIGHTS)



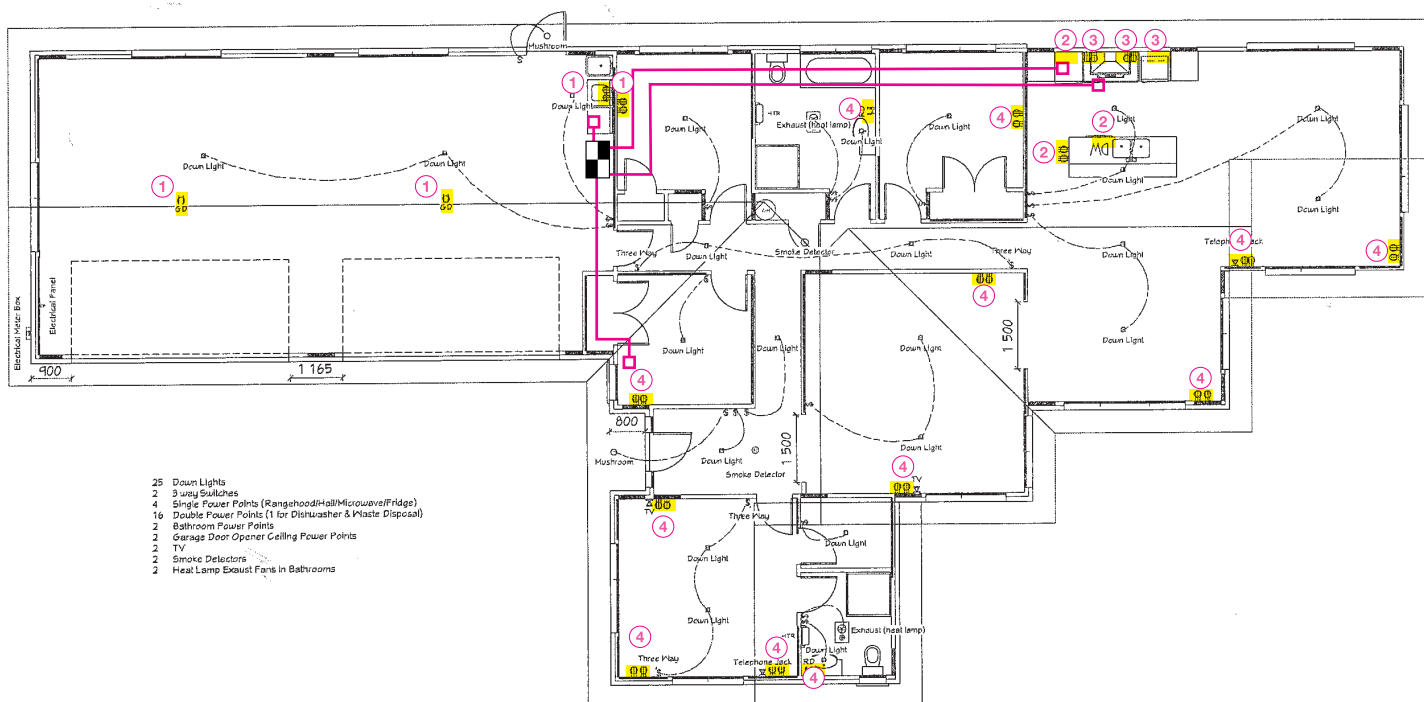
LC 1 LIGHTING CIRCUIT ONE



LC 2 LIGHTING CIRCUIT TWO

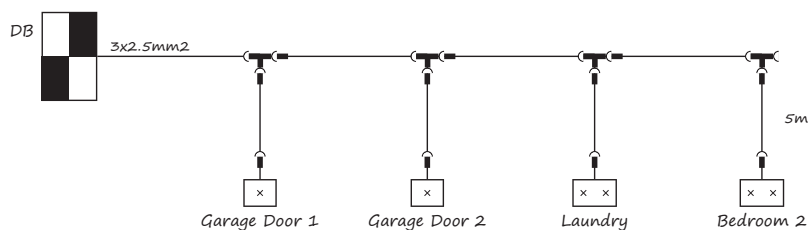


PLUG & PLAY POWER CIRCUITS



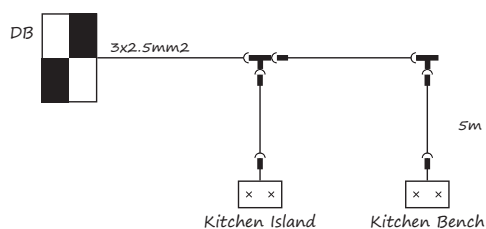
PPC 1

POWERPOINT CIRCUIT ONE



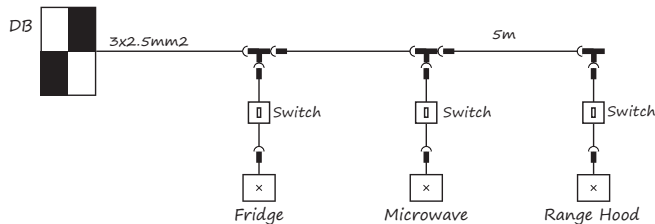
PPC 2

POWERPOINT CIRCUIT TWO



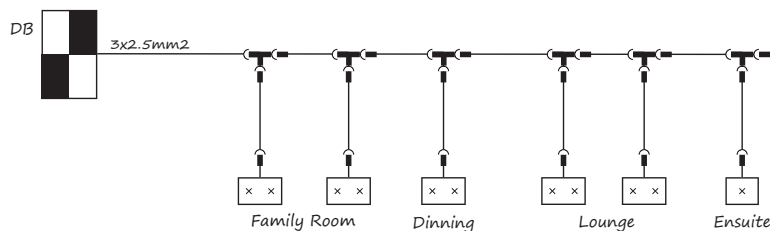
PPC 3

POWERPOINT CIRCUIT THREE



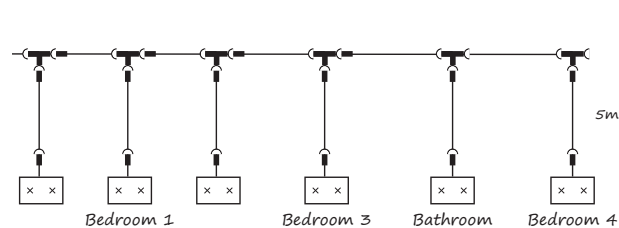
PPC 4

POWERPOINT CIRCUIT FOUR



PPC 5

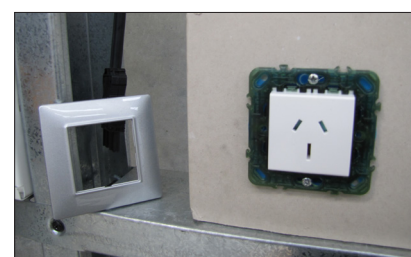
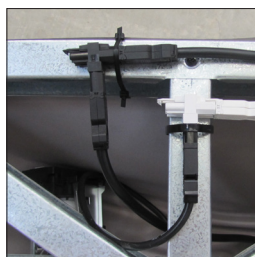
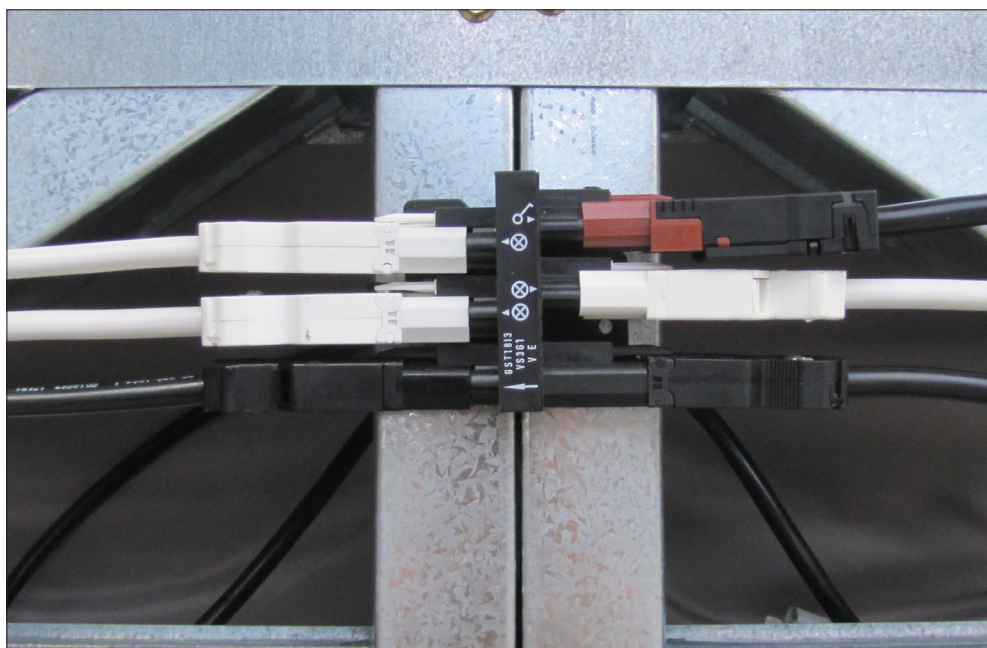
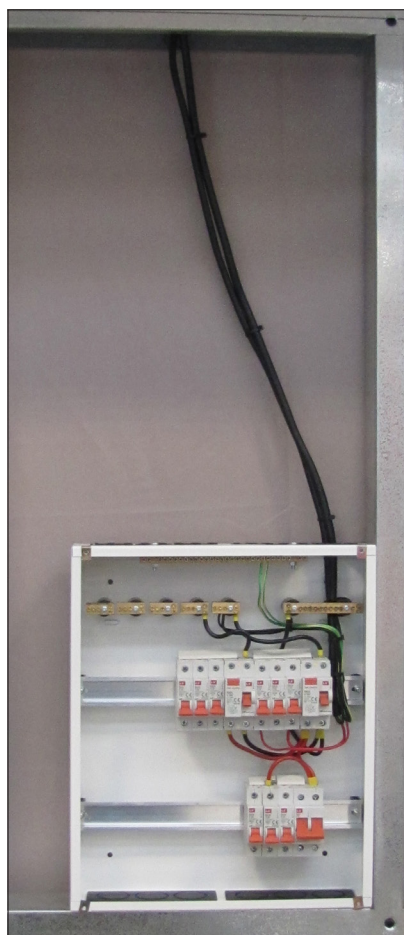
POWERPOINT CIRCUIT FIVE



Plug & Play Distribution



PLUG & PLAY WIRING DISTRIBUTION - LIGHTING & POWER



PLUG & PLAY CONNECTORS & CABLES

HH Distribution Block - Single Switching on-off		
	Part No.	Description
	DOM 92.030.0053.1	Gesis®-Switching distributor for On/Off switching; 1 Input (black), 1 output (black), 3 switched outputs (white), 1 switch output (brown); 250 V/20 A, suitable for mounting plate 07.413.6853.1

Locking Slide		
	Part No.	Description
	DOM 05.587.3156.1	Lock-free cable for connections GST18i3-5, black

3 Pole Extension Cable 1.5mm ² (Lighting)		
	Part No.	Description
	DOM 92.232.8000.1	Extension cable, female - male, length 8m, GST18i3, 3 pole, 250 V, 16 A, cable type H05VV, cross section 1,5 mm ² , colour of cable: black

3 Pole Extension Cable 2.5mm ² (Power)		
	Part No.	Description
	DOM 92.238.1000.1	Extension cable, female - male, length 1m, GST18i3, 3-pole, 250 V, 20 A, cable type H05VV, cross section 2.5 mm ² , black.
	DOM 92.238.5000.1	Extension cable, female - male, length 5m, GST18i3, 3-pole, 250 V, 20 A, cable type H05VV, cross section 2.5 mm ² , black.
	DOM 92.238.8000.1	Extension cable, female - male, length 8m, GST18i3, 3-pole, 250 V, 20 A, cable type H05VV, cross section 2.5 mm ² , black.

Circular 4mm TPS		
	Part No.	Description
	DOM-LAPP-3803866	Class 2 stranded conductors, V90 PVC inner insulation material and UV Resistant 5V-90 PVC outer sheath. Cable is metre marked.

Plug & Play Lighting Circuits

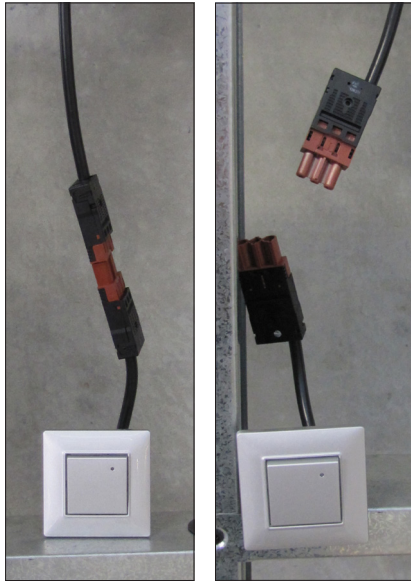
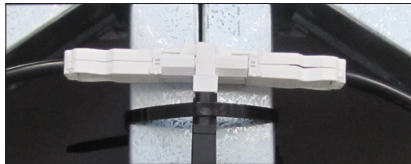
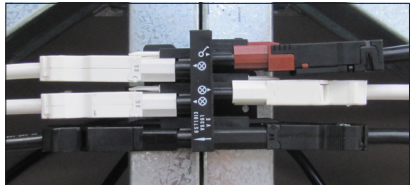
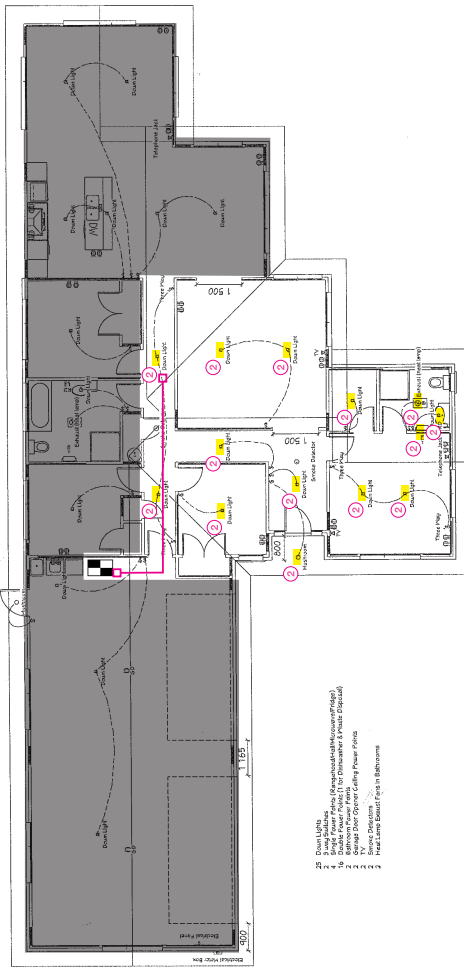
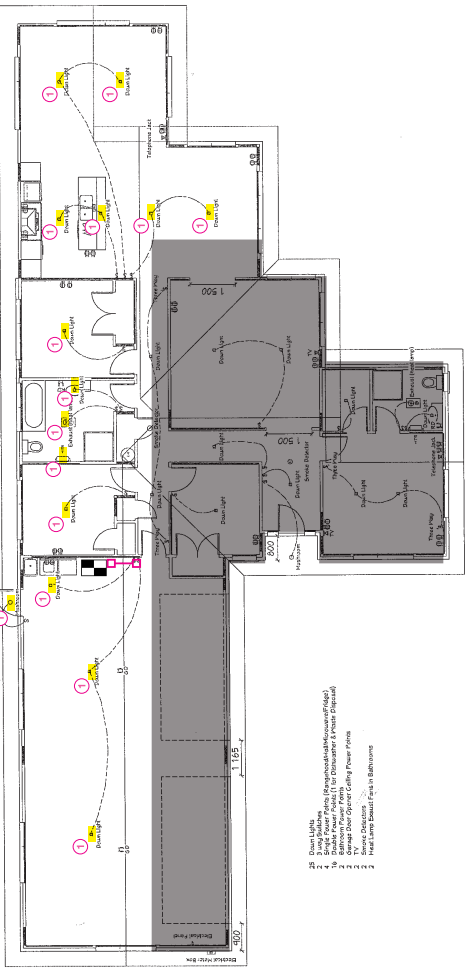
BASED ON STANDARD HOUSE PLAN

(All Lighting Circuits are for LED lights)



LC 1 LIGHTING CIRCUIT ONE

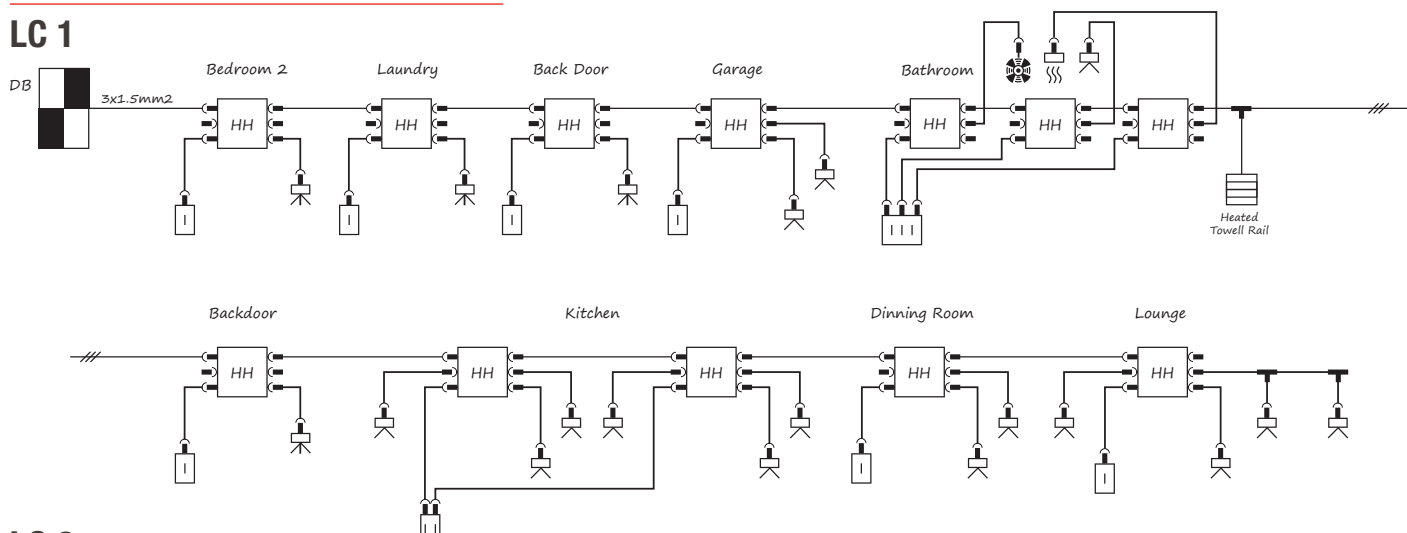
LC 2 LIGHTING CIRCUIT TWO



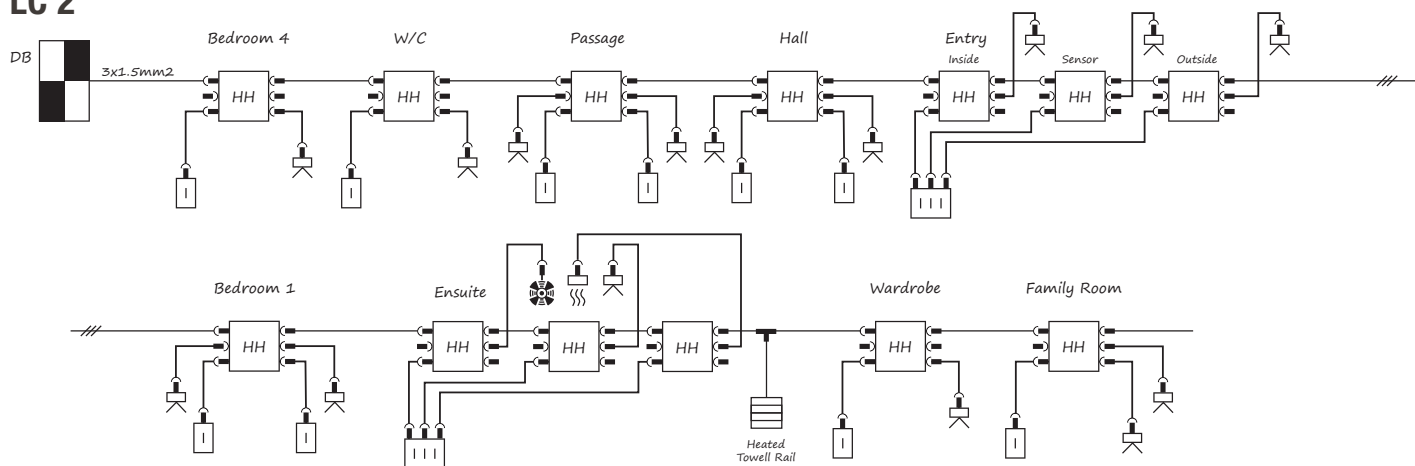
3 Pole Extension Cable 1.5mm² (Lighting)		
Part No.	Description	
DOM 92.232.1000.2	Extension cable, female - male, length 1m, GST18i3, 3 pole, 250 V, 16 A, cable type H05VV, cross section 1,5 mm², colour of cable: white	
DOM 92.232.5000.2	Extension cable, female - male, length 5m, GST18i3, 3 pole, 250 V, 16 A, cable type H05VV, cross section 1,5 mm², colour of cable: white	
DOM 92.232.8000.2	Extension cable, female - male, length 8m, GST18i3, 3 pole, 250 V, 16 A, cable type H05VV, cross section 1,5 mm², colour of cable: white	

PLUG & PLAY - LIGHTING SYSTEM STRUCTURE

LC 1

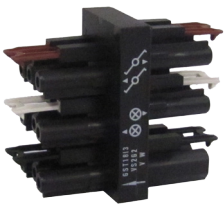


LC 2

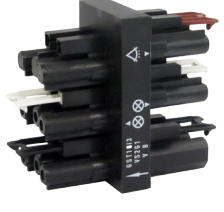


PLUG & PLAY LIGHTING CONNECTORS & CABLES

HH Distribution Block - Single Switching on-off		
	Part No.	Description
	DOM 92.030.0053.1	gesis®-Switching distributor for On/Off switching; 1 Input (black), 1 output (black), 3 switched outputs (white), 1 switch output (brown); 250 V/20 A, suitable for mounting plate 07.413.6853.1

HH Switching Distributor - 2 Way		
	Part No.	Description
	DOM 92.030.0253.1	gesis®-Switching distributor for alternating switching; 1 Input (black), 1 output (black), 2 switched outputs (white), 2 outputs (brown) for alternating switches; 250 V/20 A, suitable for mounting plate 07.413.6853.1

HH Switching Distributor - On-Off 2-Gang		
	Part No.	Description
	DOM 92.030.0353.1	gesis®-Switching distributor for series switching; 1 Input (black), 1 output (black), 2 separately switched outputs (white), 1 output (brown) for series switch; 250 V/20 A, suitable for mounting plate 07.413.6853.1

HH Switching Distributor - Motion Detector		
	Part No.	Description
	DOM 92.030.0153.1	gesis®-Switching distributor for motion detector; 1 Input (black), 1 output (black), 2 outputs (white) switched by motion detector, 1 switch output for motion detector (brown); 250 V/20 A, suitable for mounting plate 07.413.6853.1

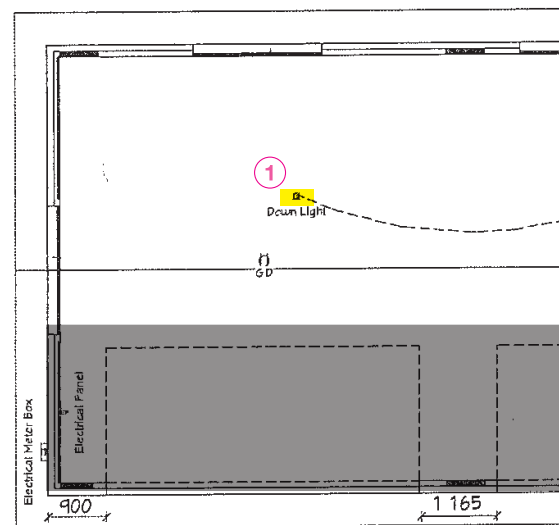
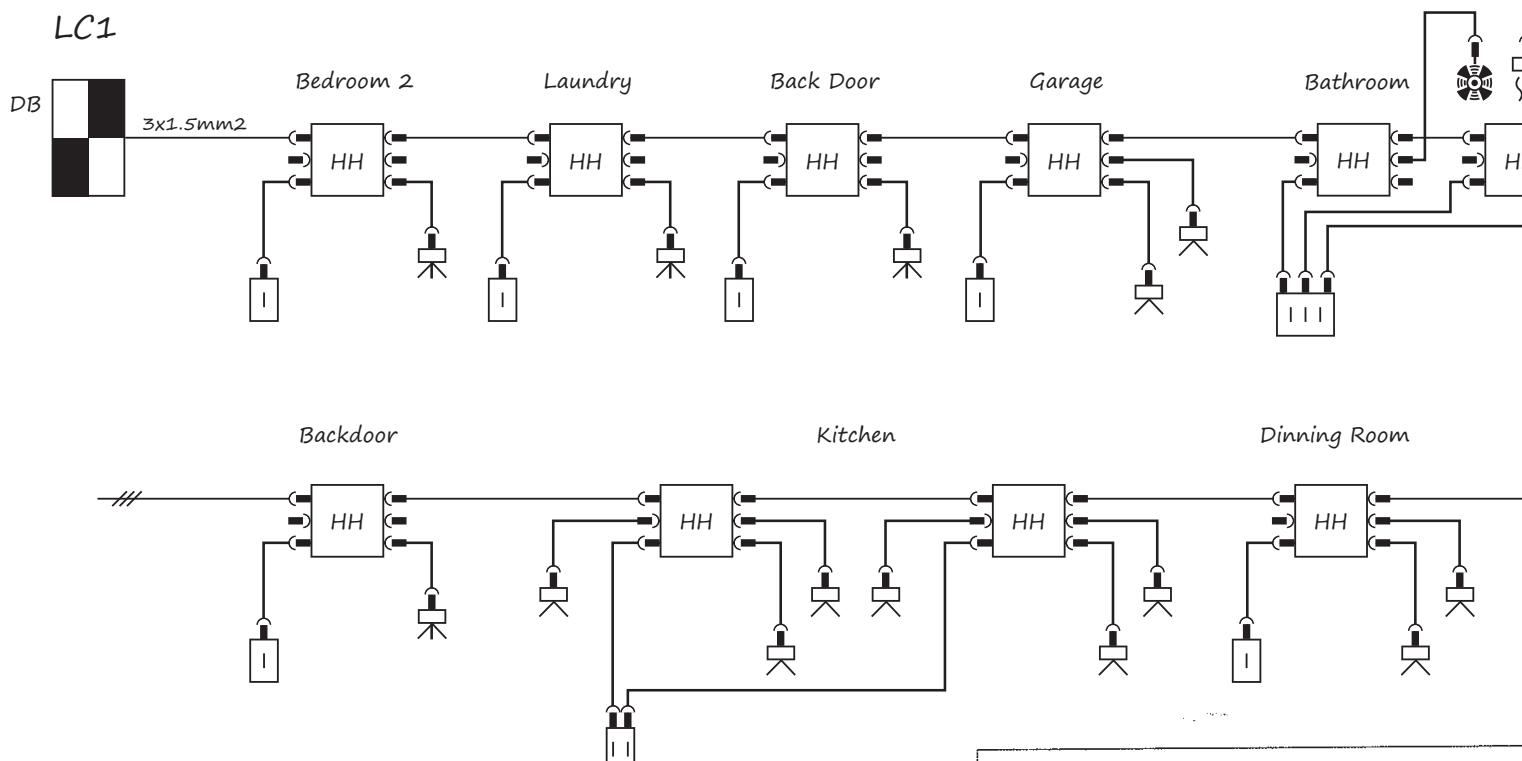
T-connector		
	Part No.	Description
	DOM 92.030.1053.1	T-connector GST18i3, 3 pole, 1 input, 2 outputs, 250 V, 20 A, colour of coding: black

LC 1

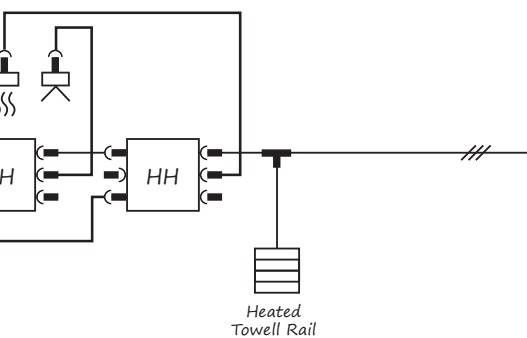
LIGHTING CIRCUIT ONE

BASED ON STANDARD HOUSE PLAN

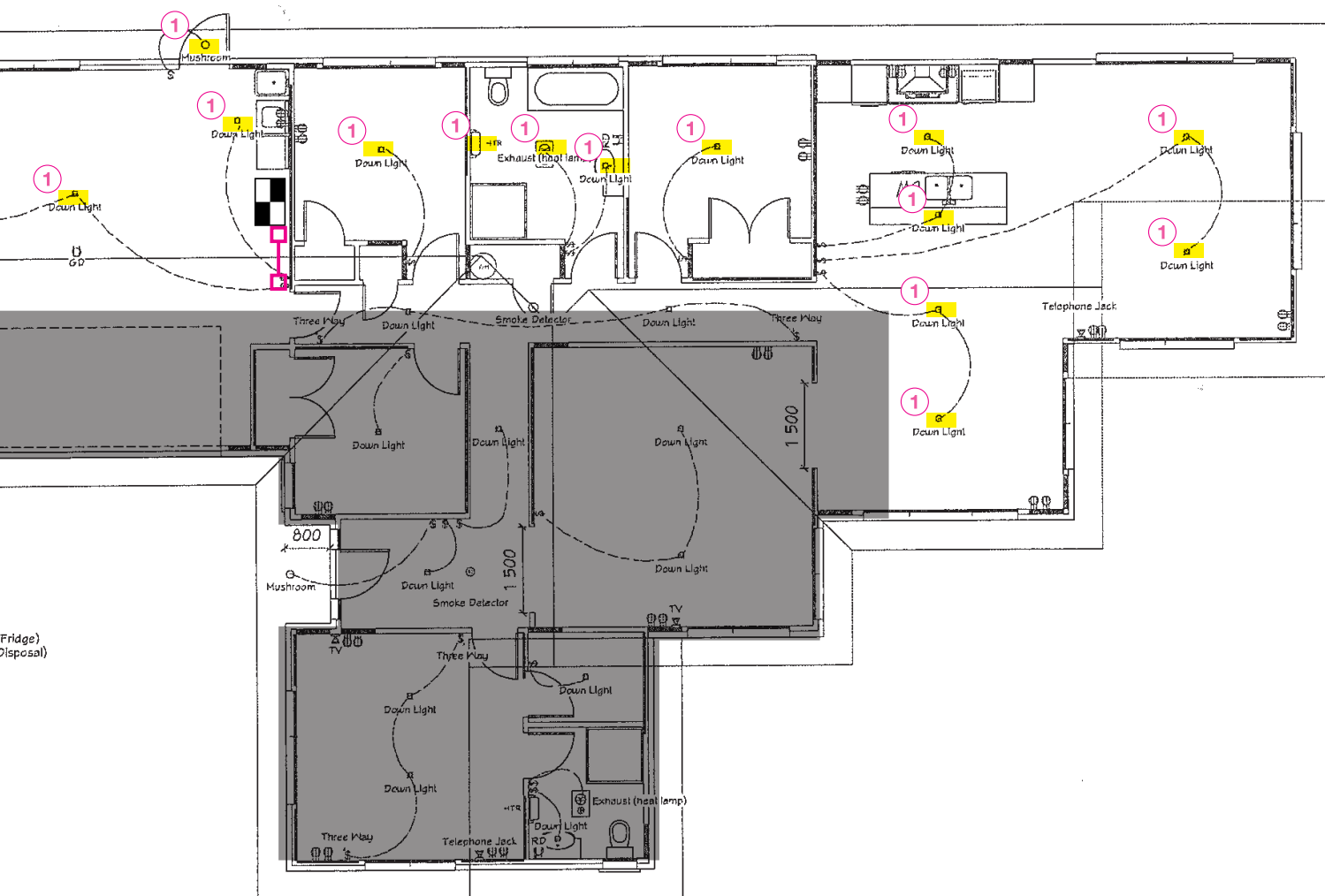
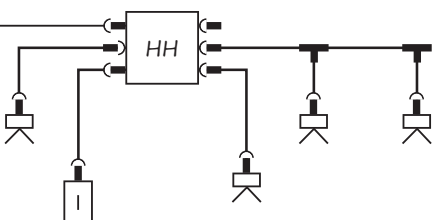
SHAVER X2, BEDROOM 1/3/4, LIVING/DINNING/FAMILY (12 OUTLETS)



- 25 Down Lights
- 2 3 way Switches
- 4 Single Power Points (Rangehood/Hall/Microwave)
- 16 Double Power Points (1 for Dishwasher & Waste)
- 2 Bathroom Power Points
- 2 Garage Door Opener Ceiling Power Points
- 2 TV
- 2 Smoke Detectors
- 2 Heat Lamp Exhaust Fans in Bathrooms



Lounge

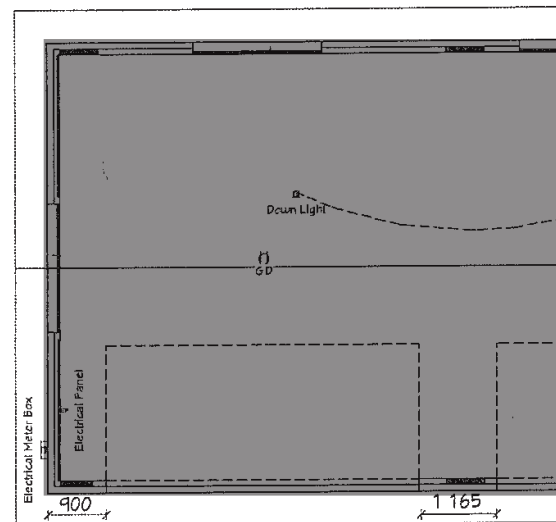
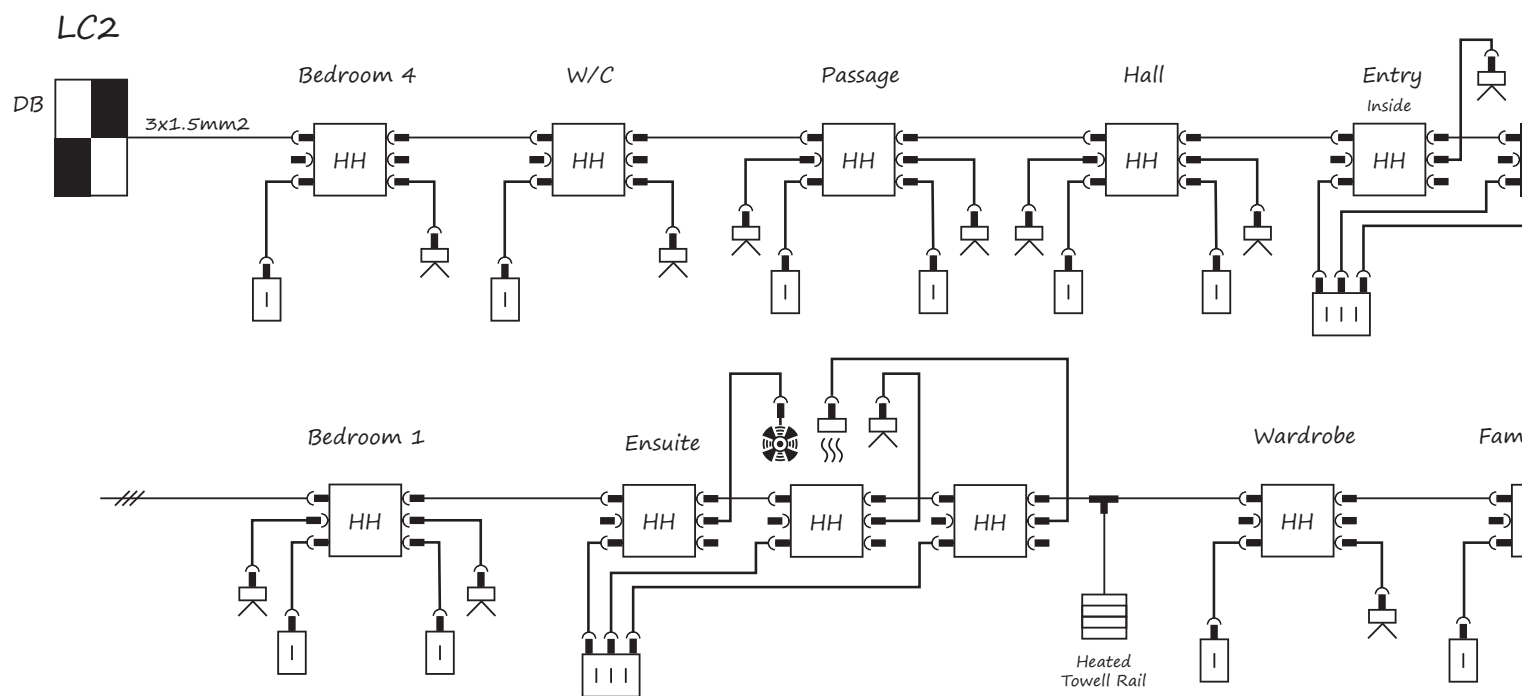


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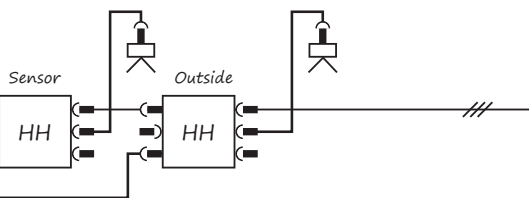
LIGHTING CIRCUIT TWO

BASED ON STANDARD HOUSE PLAN

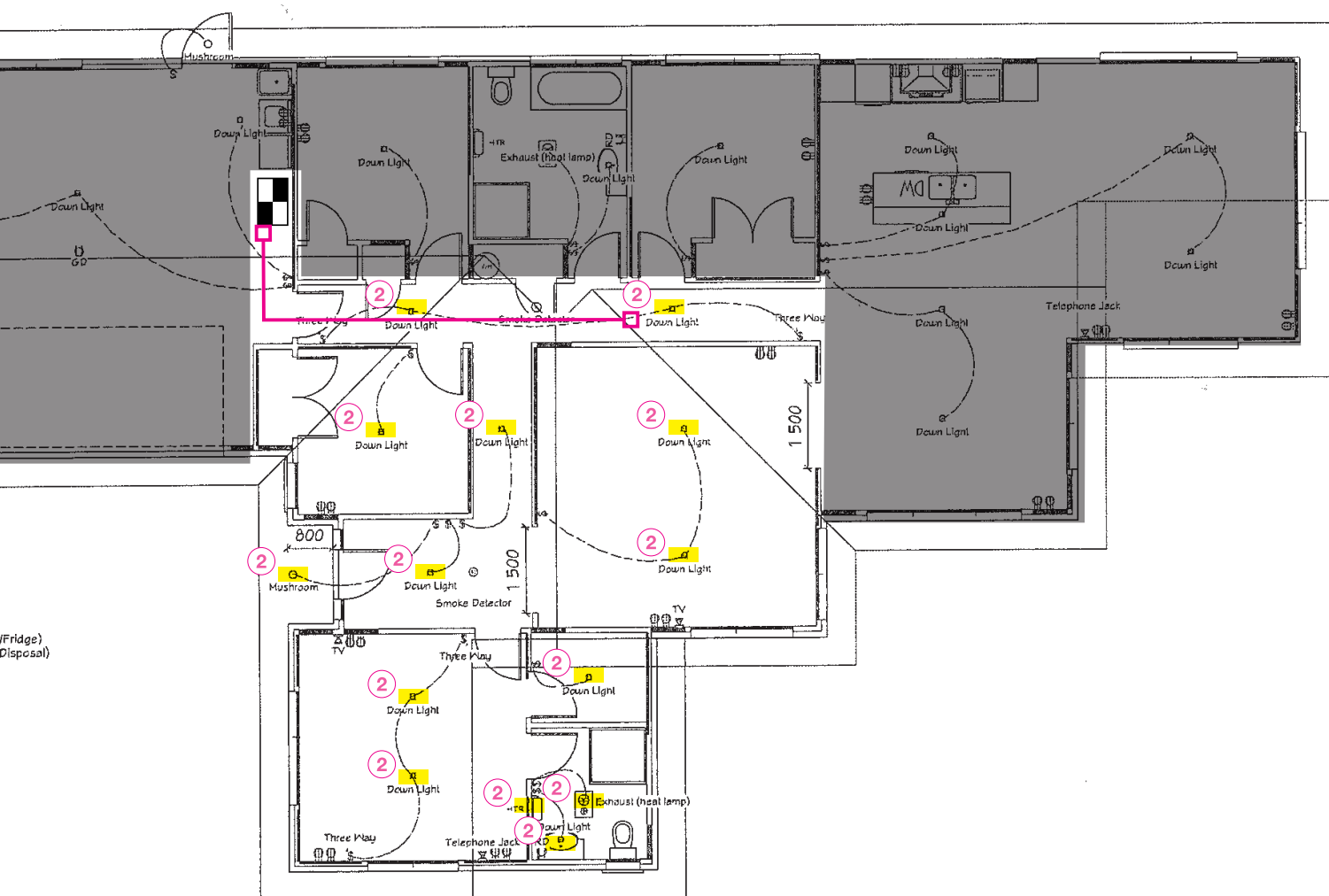
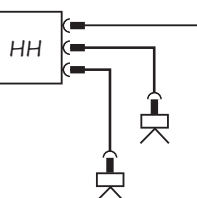
SHAVER X2, BEDROOM 1/3/4, LIVING/DINNING/FAMILY (12 OUTLETS)



- 25 Down Lights
- 2 3 way Switches
- 4 Single Power Points (Rangehood/Hall/Microwave)
- 16 Double Power Points (1 for Dishwasher & Waste)
- 2 Bathroom Power Points
- 2 Garage Door Opener Ceiling Power Points
- 2 TV
- 2 Smoke Detectors
- 2 Heat Lamp Exhaust Fans in Bathrooms



Family Room



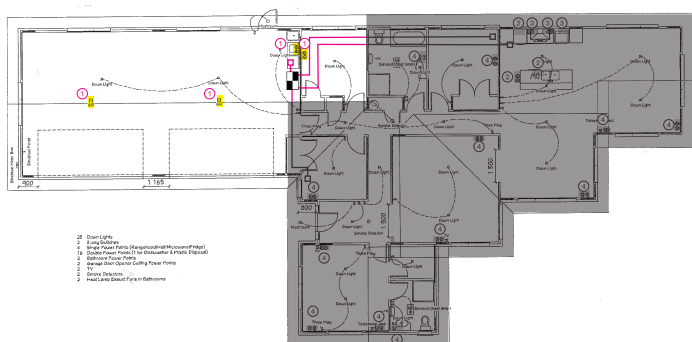
Plug & Play Power Circuits

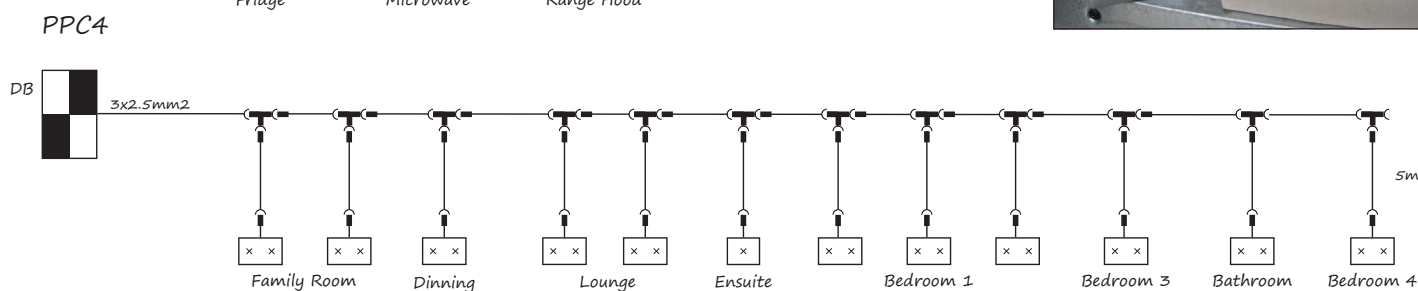
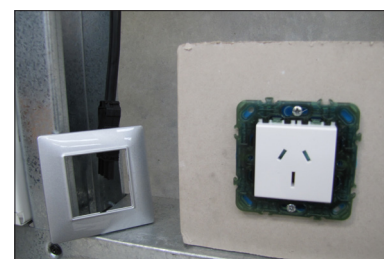
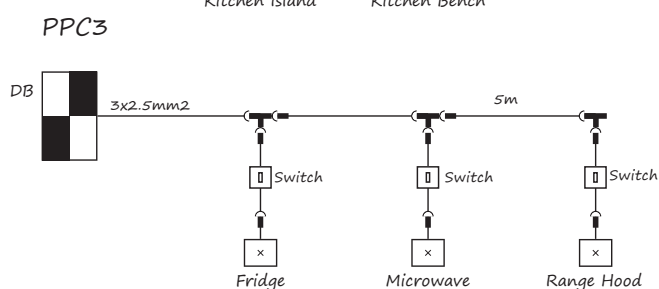
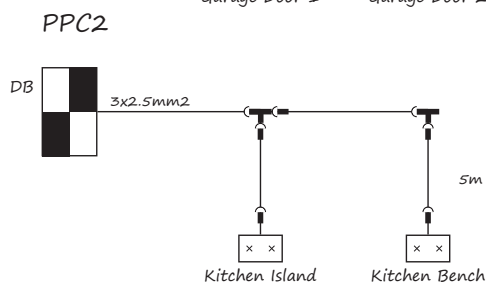
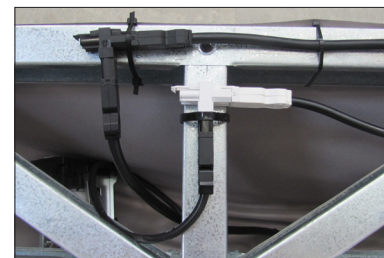
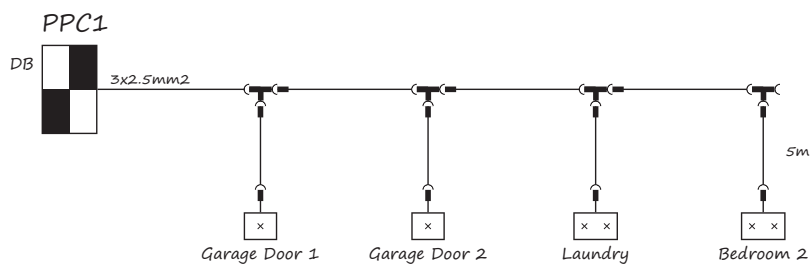
BASED ON STANDARD HOUSE PLAN



PPC 1

POWERPOINT CIRCUIT ONE





Plug & Play Power Connectors & Cables

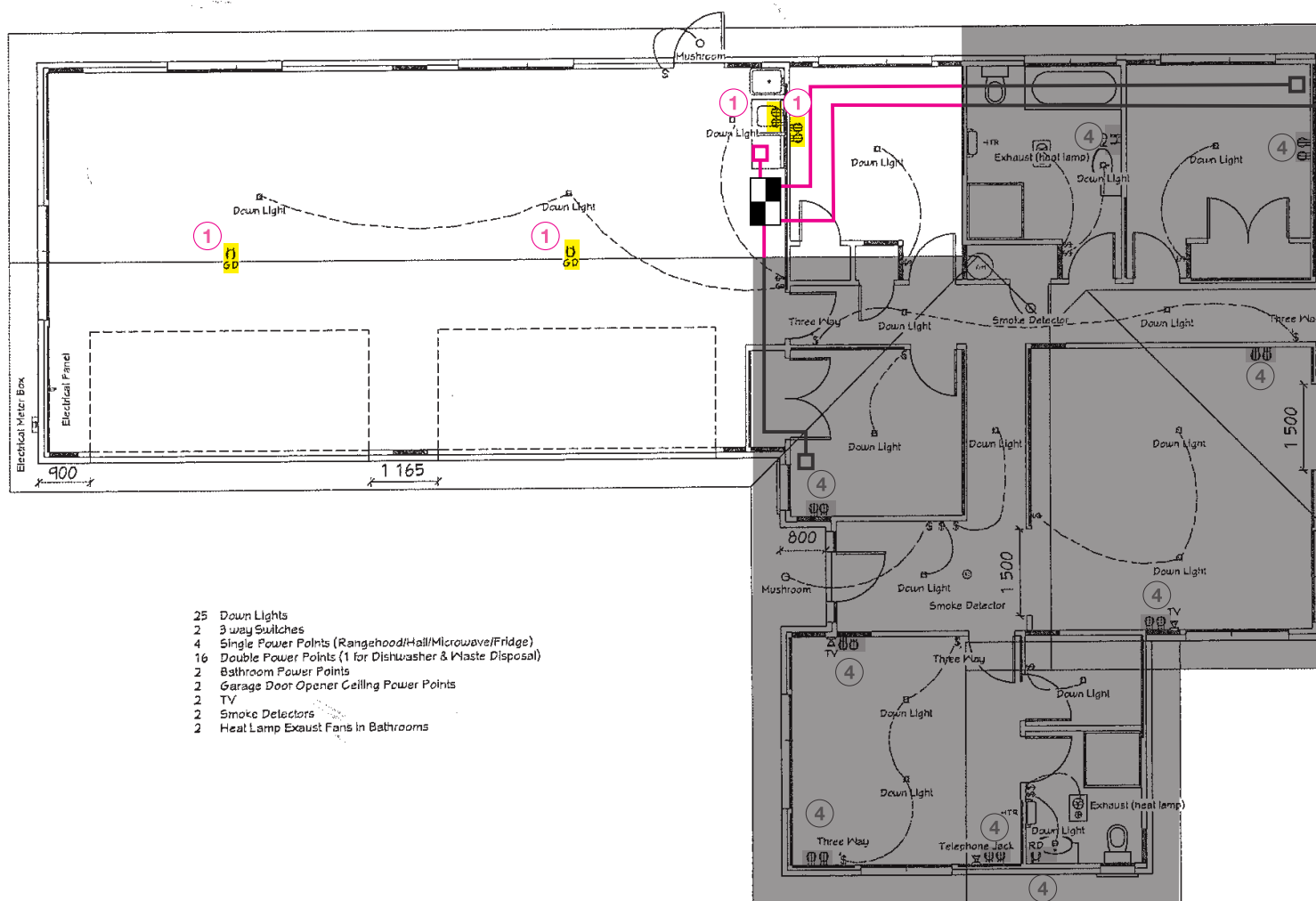
Extension Cable Female - Male 8m (Power)		
	Part No.	Description
	DOM 92.238.8000.1	Extension cable, female - male, length 8m, GST18i3, 3-pole, 250 V, 20 A, cable type H05VV, cross section 2.5 mm², black.

Circular 2.5mm TPS		
	Part No.	Description
	DOM-LAPP-3806841	Class 2 stranded conductors, V90 PVC inner insulation material and UV Resistant PVC outer sheath. Cable is metre marked.

T-connector		
	Part No.	Description
	DOM 92.030.1053.1	T-connector GST18i3, 3 pole, 1 input, 2 outputs, 250 V, 20 A, colour of coding: black

Locking Slide		
	Part No.	Description
	DOM 05.587.3156.1	Lock-free cable for connections GST18i3-5, black.

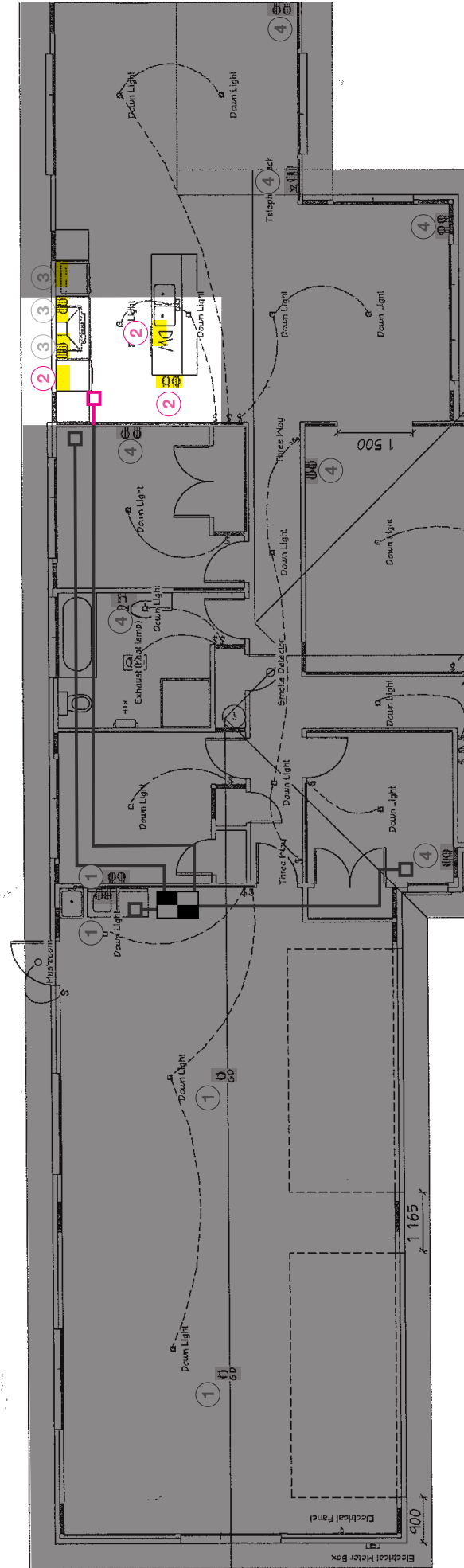
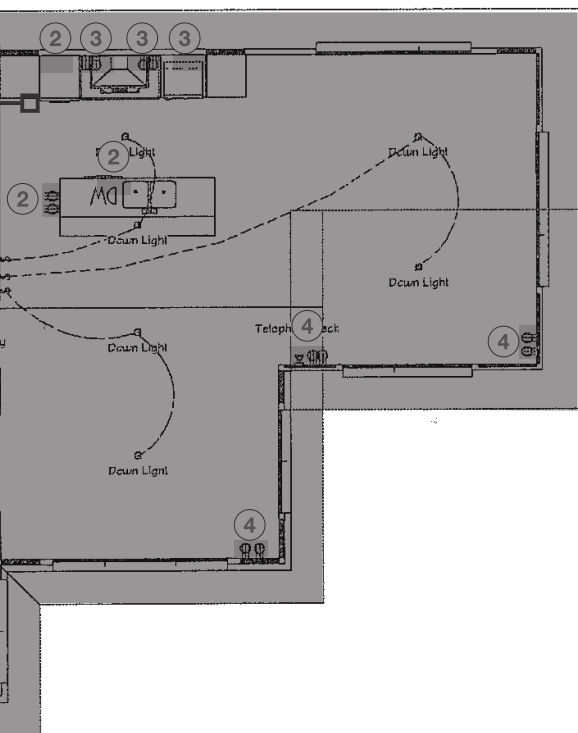
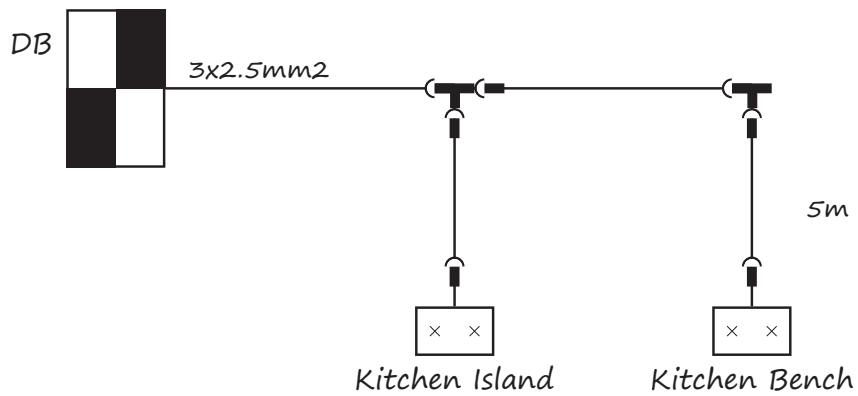
POWERPOPOINT CIRCUIT ONE
GARAGE, LAUNDRY, BEDROOM (4 OUTLETS)



PPC 2

POWERPOINT CIRCUIT

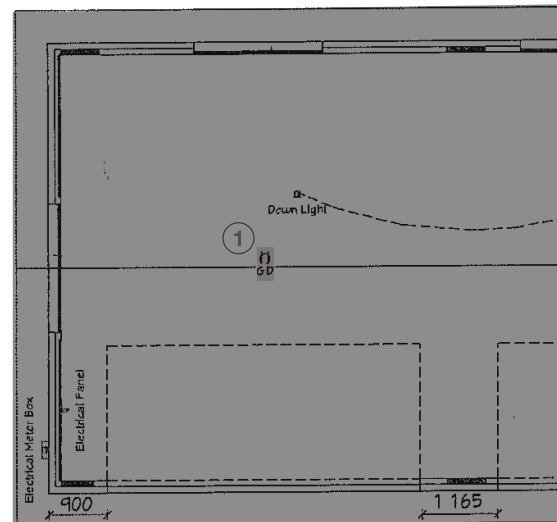
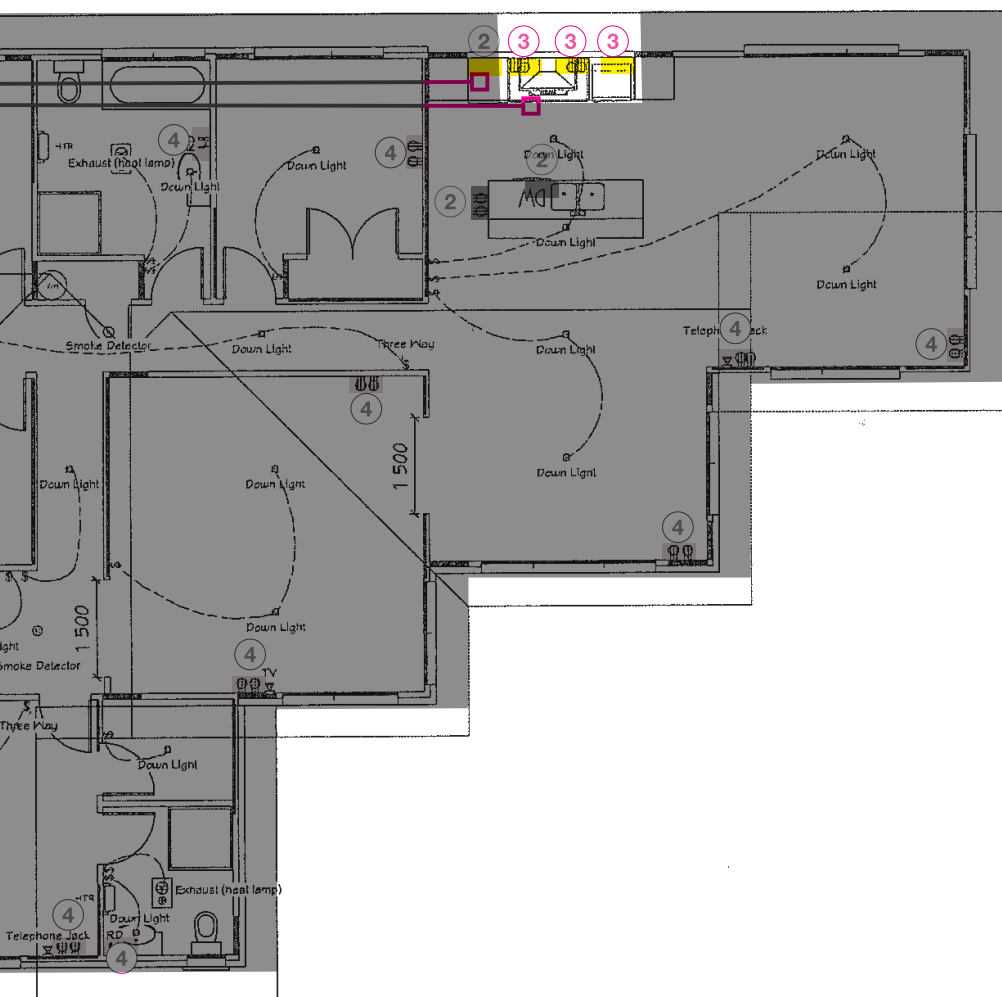
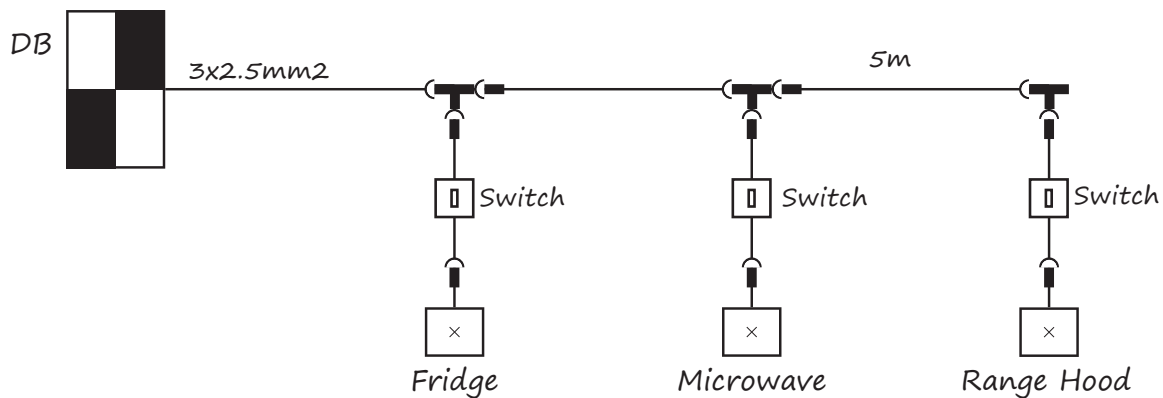
KITCHEN ISLAND, DISHWASHER, FRIDGE (3 OUTLETS)



PPC 3

POWERPOINT CIRCUIT THREE

FRIDGE, Microwave, Rangehood (3 OUTLETS)

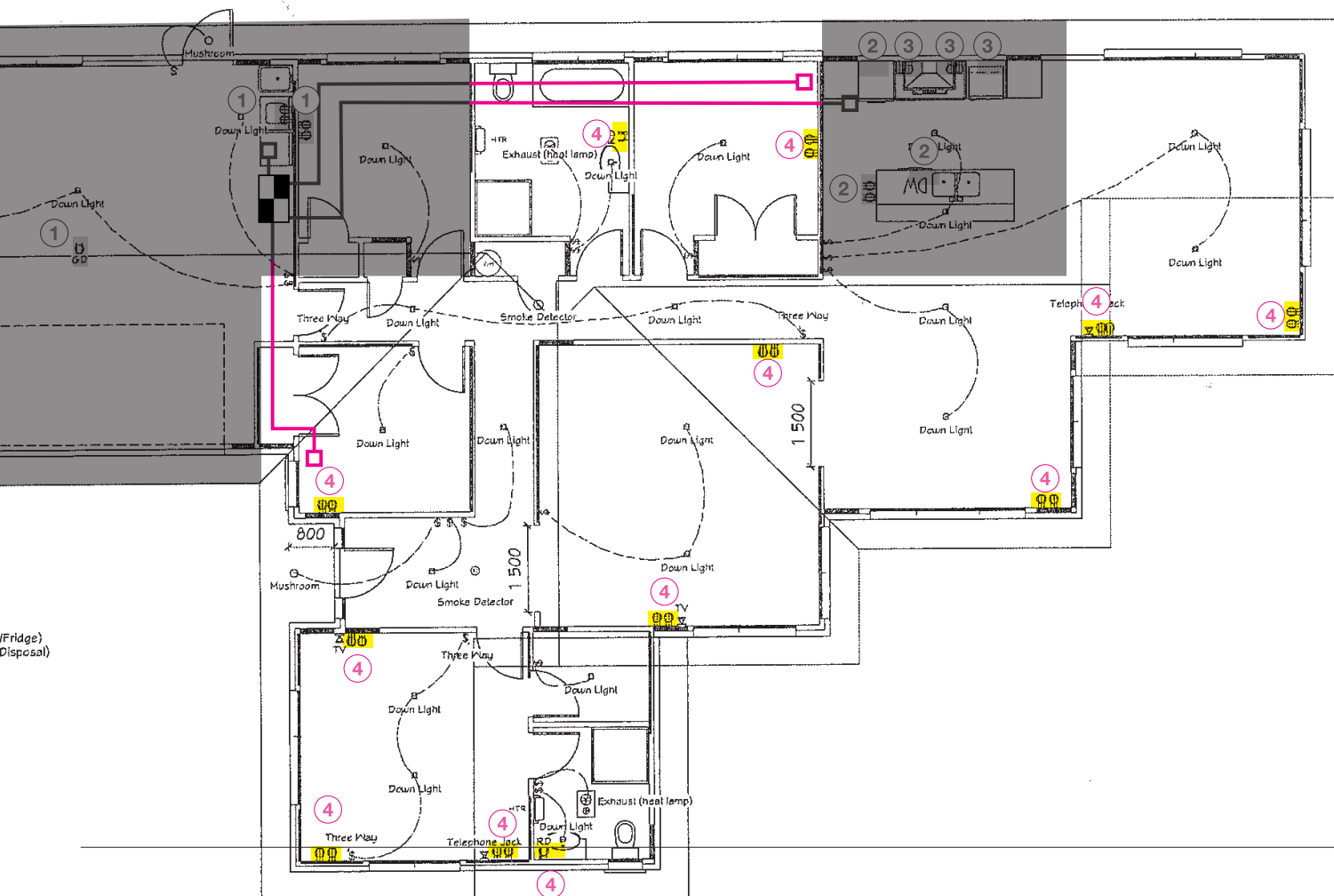
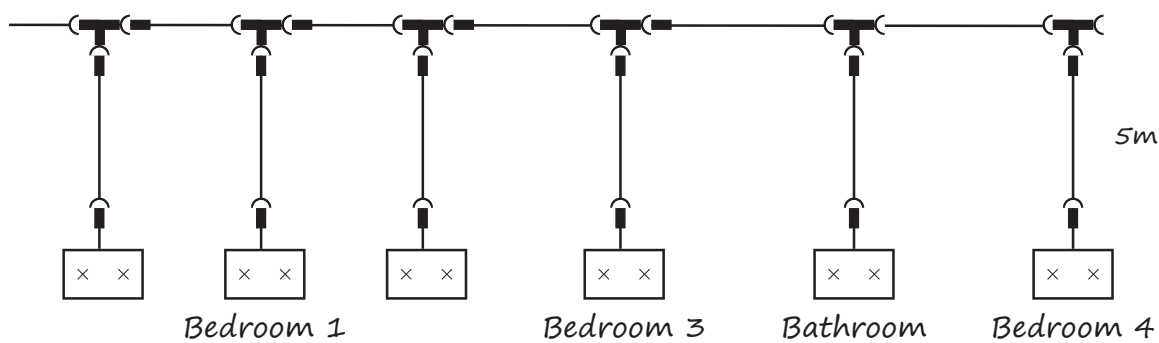


- 25 Down Lights
- 2 3 way Switches
- 4 Single Power Points (Rangehood/Hall/Microwave)
- 16 Double Power Points (1 for Dishwasher & Waste)
- 2 Bathroom Power Points
- 2 Garage Door Opener Ceiling Power Points
- 2 TV
- 2 Smoke Detectors
- 2 Heat Lamp Exhaust Fans in Bathrooms

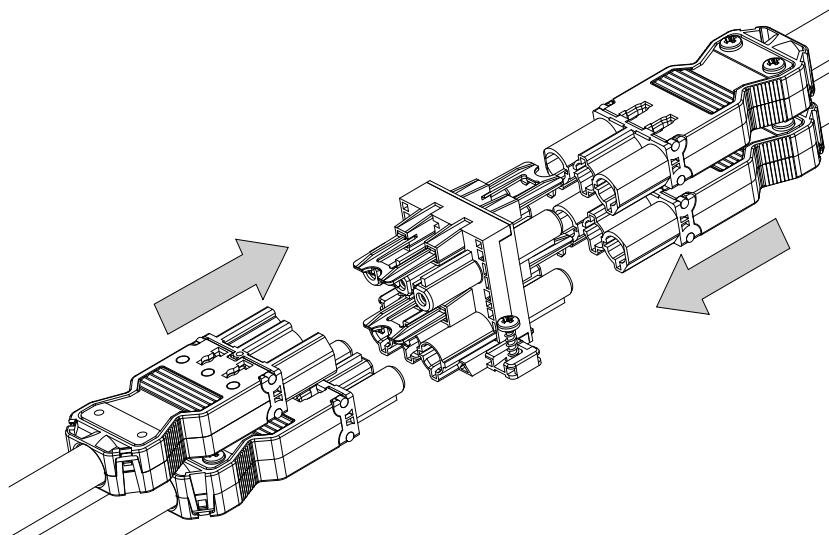
POWERPOINT CIRCUIT FOUR / FIVE
LOUNGE, BEDROOM 1/3/4, LIVING/DINNING/FAMILY (12 OUTLETS)



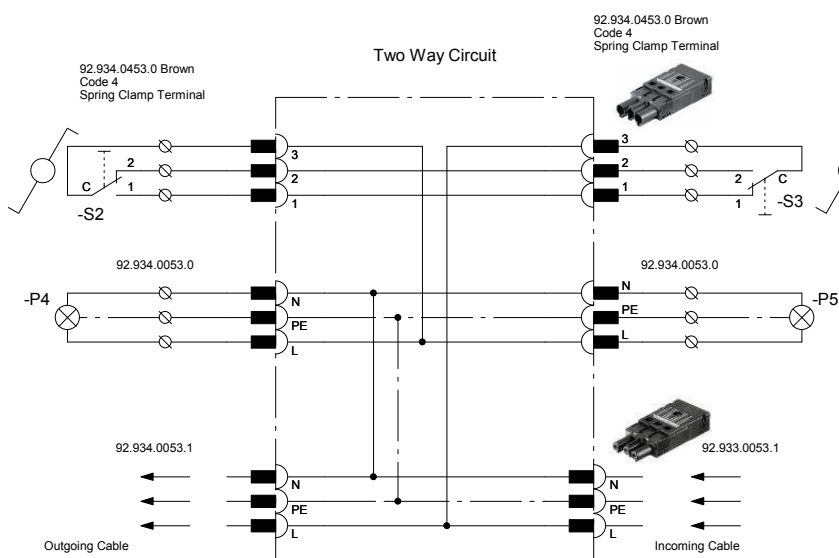
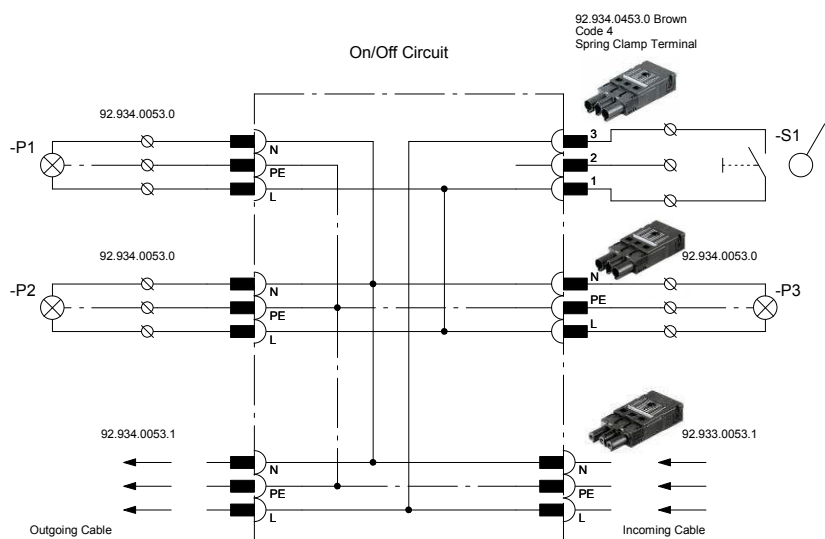
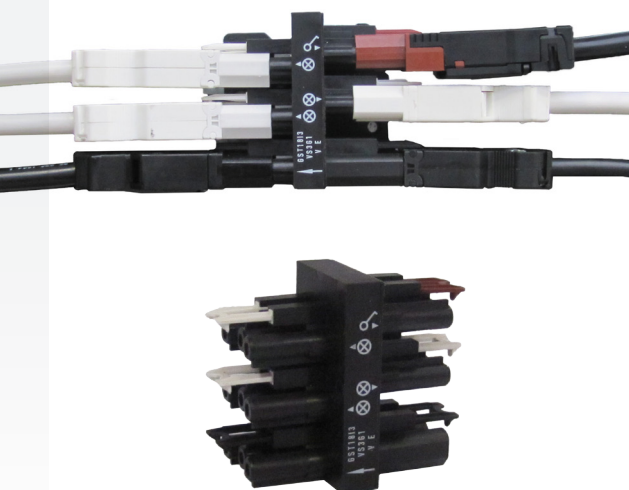
POWERPOINT CIRCUIT FIVE
BEDROOM 1/3/4, LIVING// (6 OUTLETS)



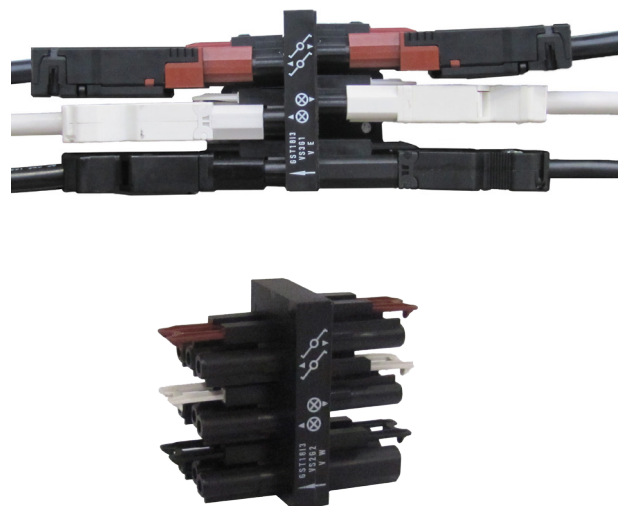
Plug & Play Installation Example

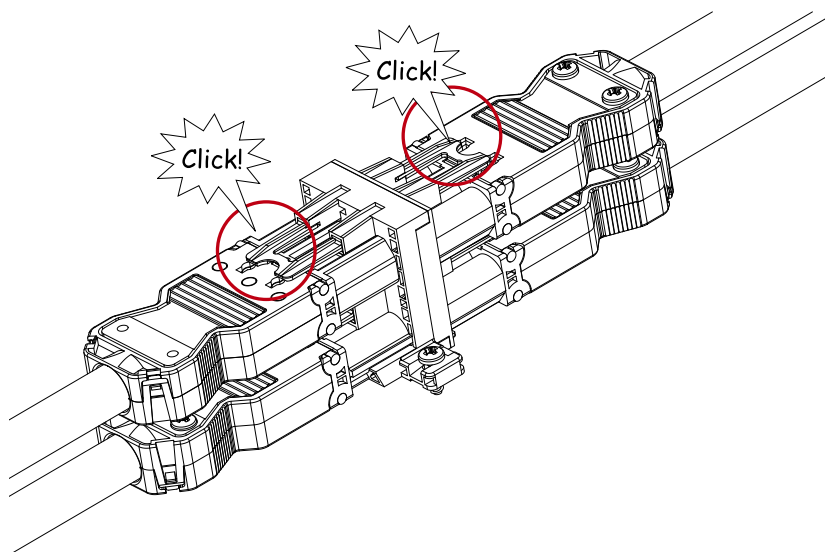


ON/OFF HH SWITCHING DISTRIBUTOR CIRCUITS

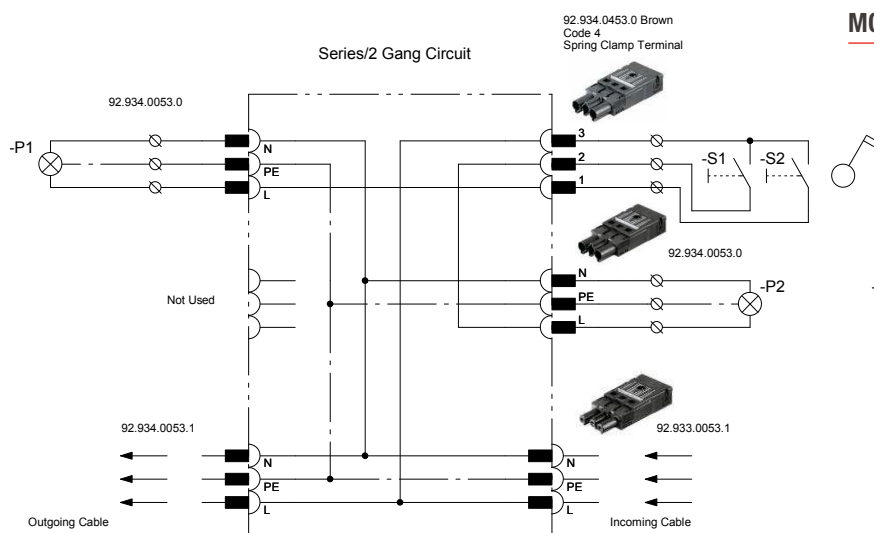
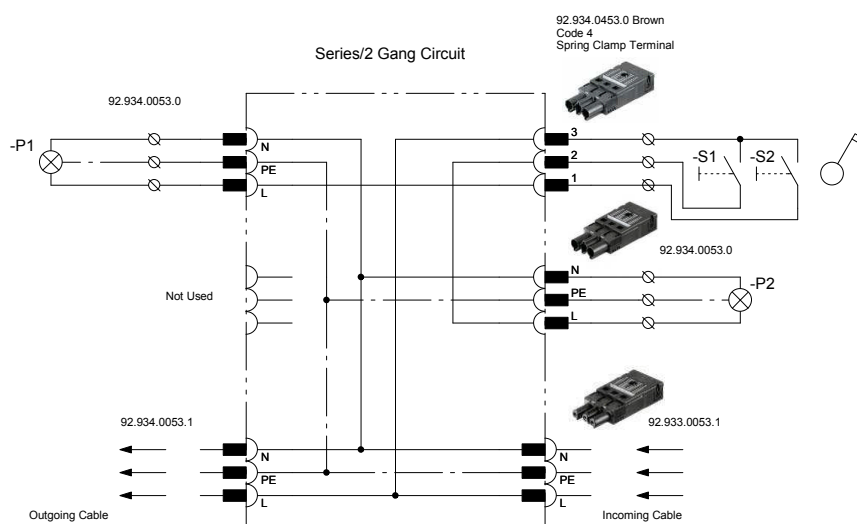
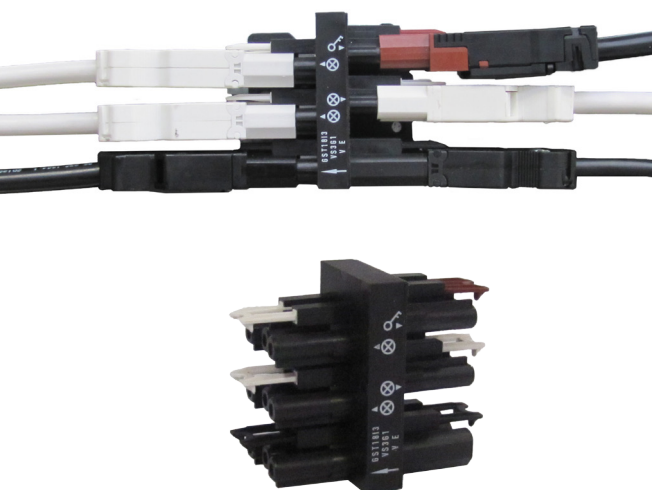


2 WAY HH SWITCHING DISTRIBUTOR CIRCUITS

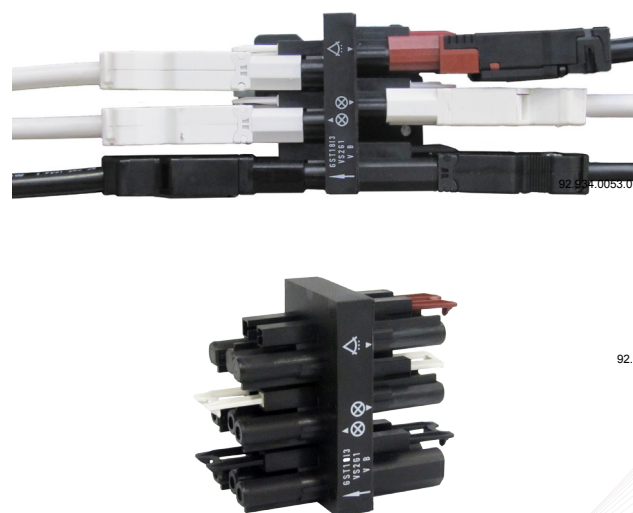




2 GANG HH SWITCHING DISTRIBUTOR CIRCUITS



MOTION SENSOR HH SWITCHING DISTRIBUTOR CIRCUITS

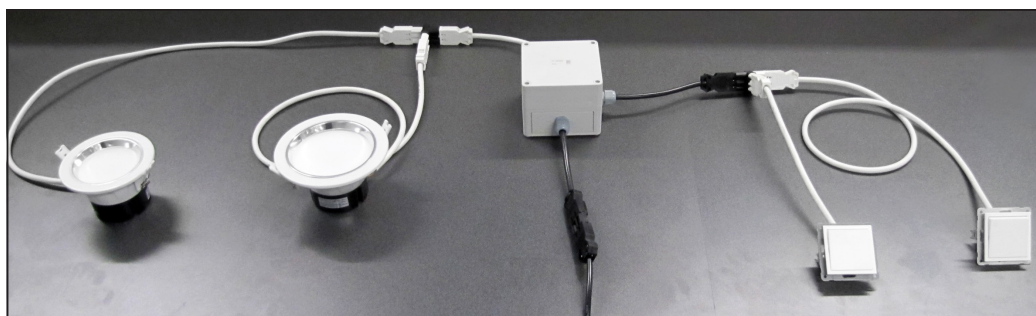


Plug & Play Multi-Way Switching



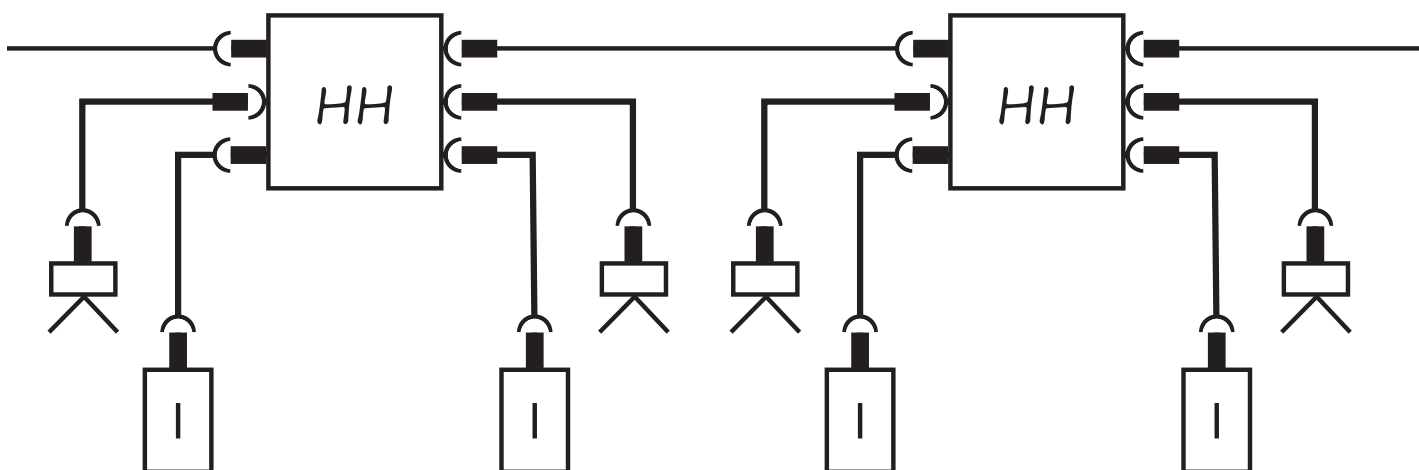
LATCHING RELAY MODULE FOR ALL TWO OR MULTI WAY LIGHTING VCONTROL.

This is a FINDER RELAY 26.02.8.230.0000, 10 AMP RATE LATCHING.



Passage

Hall



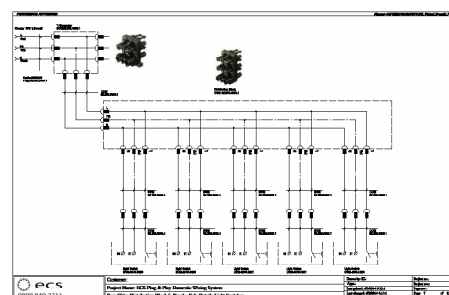
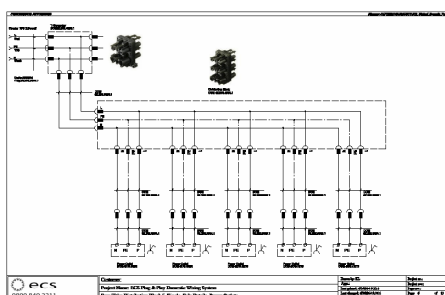
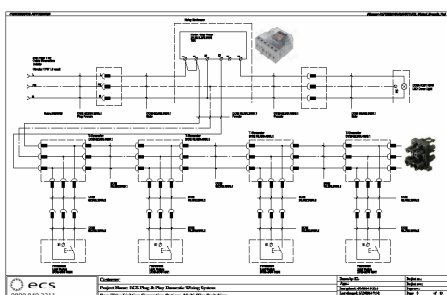
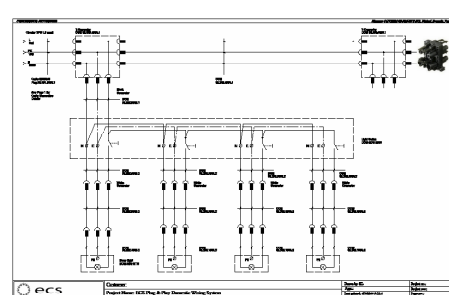
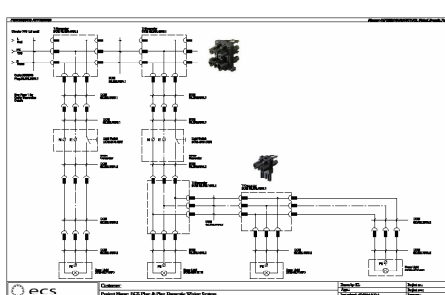
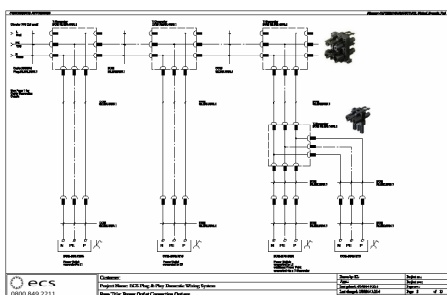
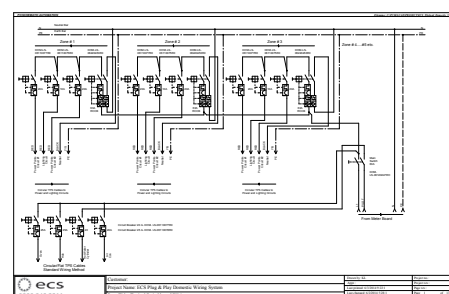
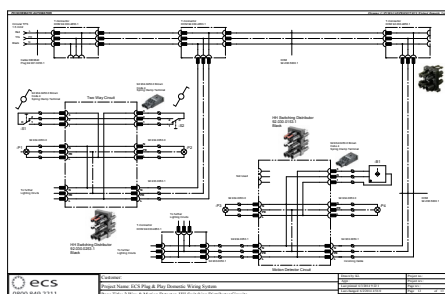
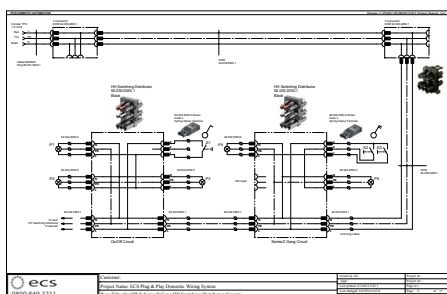
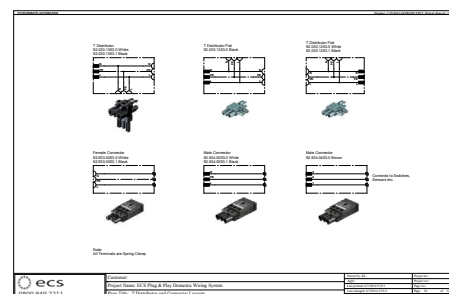
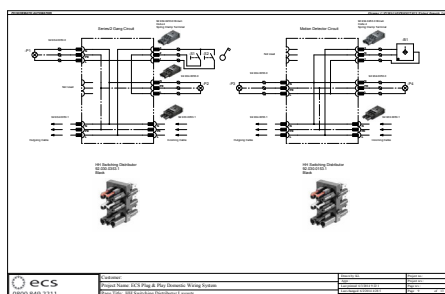
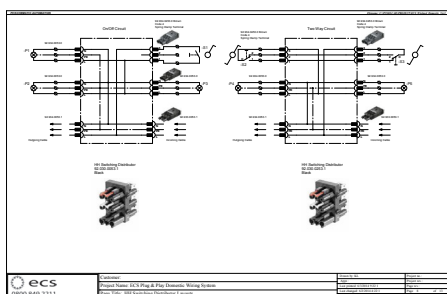
Plug & Play Schematics - Contents

Schematics

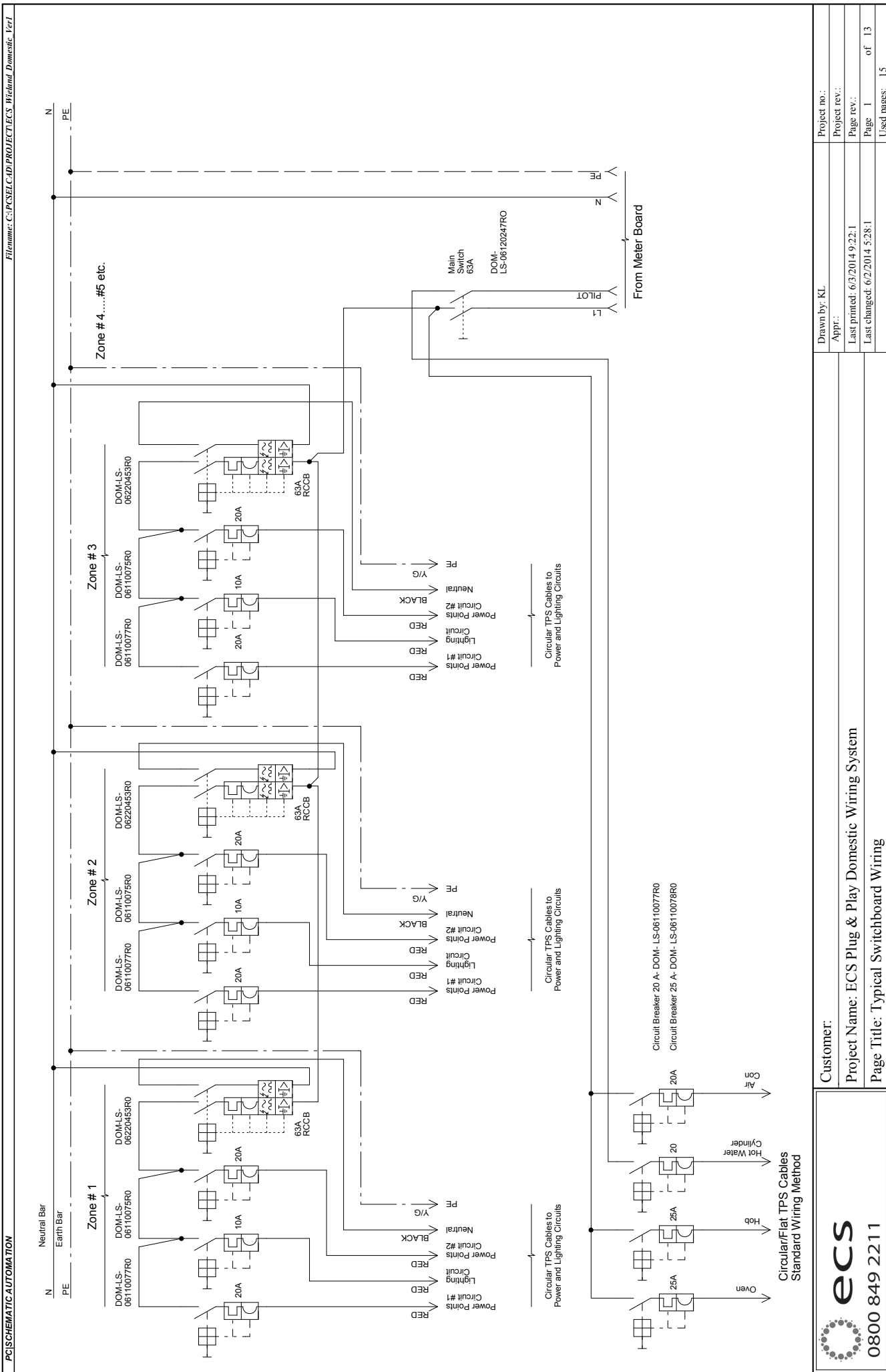
Schematical Line Drawing Diagrams

7

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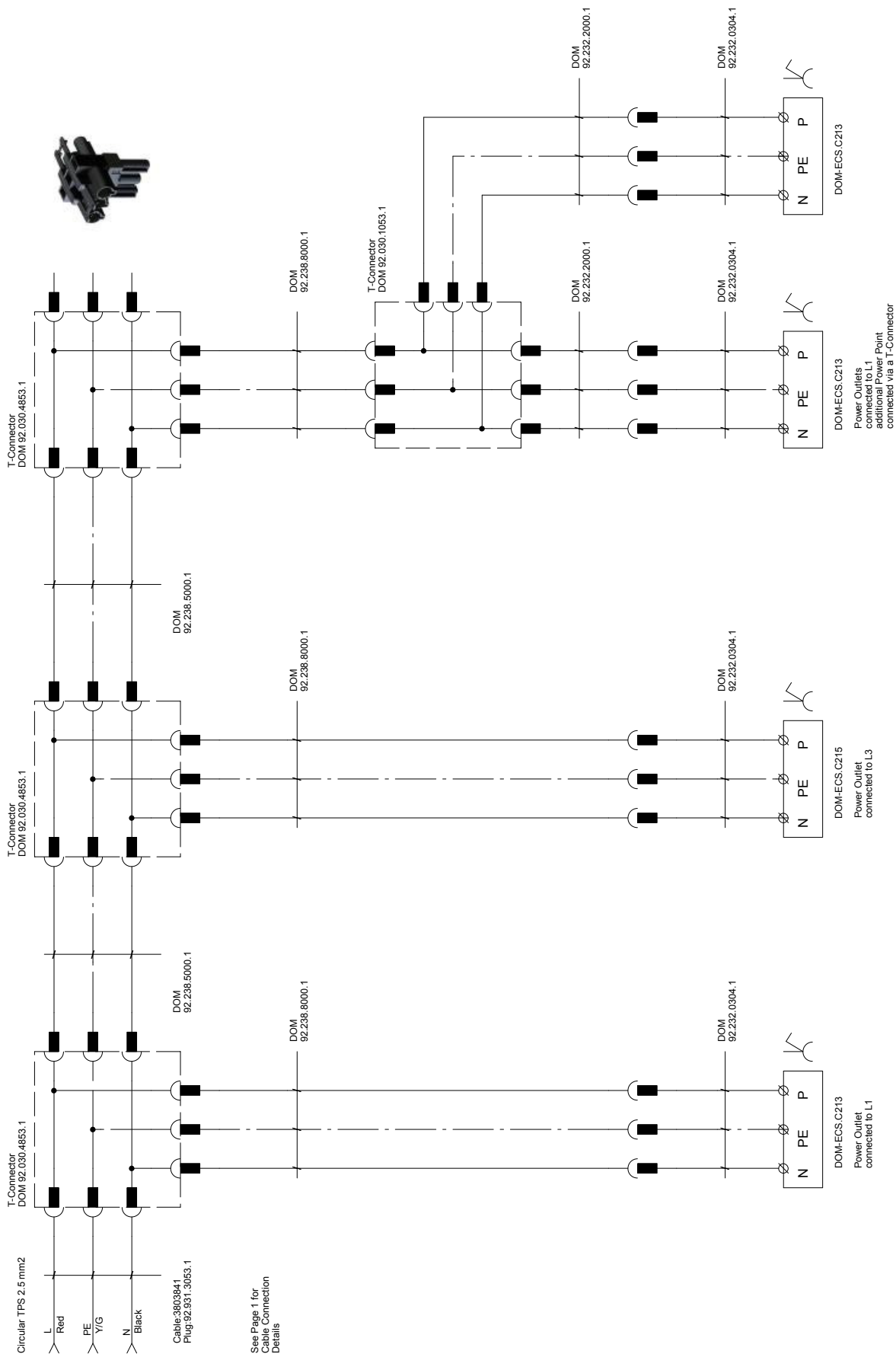
Typical Switchboard Wiring



Power Outlet Connection Options

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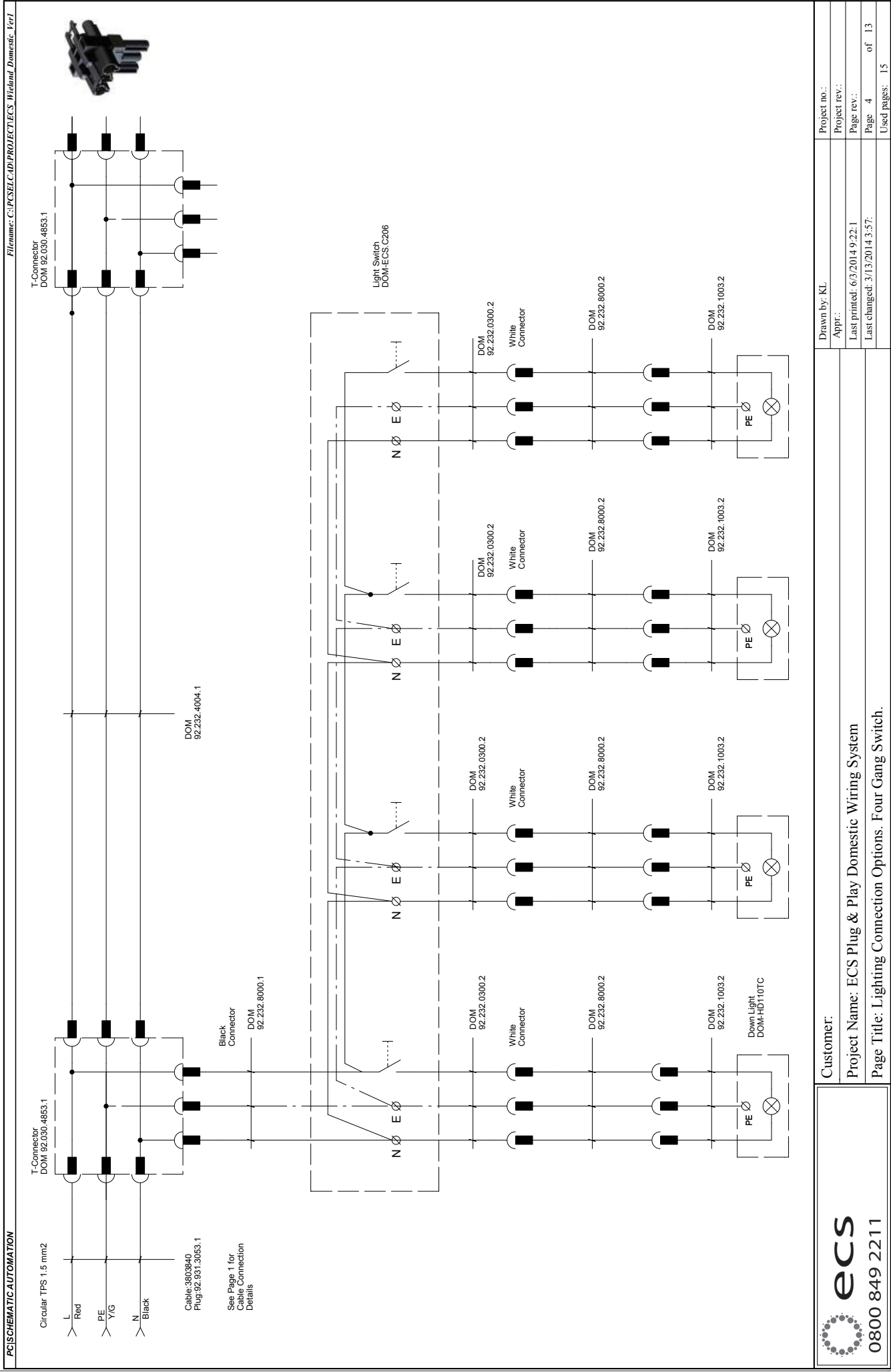


Customer:		Drawn by: KL	Project no.:
Project Name: ECS Plug & Play Domestic Wiring System		Appr.:	Project rev.:
Page Title: Power Outlet Connection Options		Last printed: 6/3/2014 9:22:1	Page rev.:
		Last changed: 5/8/2014 3:25:4	Page 2 of 13
			Used pages: 15

Filename: C:\PCSELCAD\PROJECT\ECS Wieland Domestic Ver1



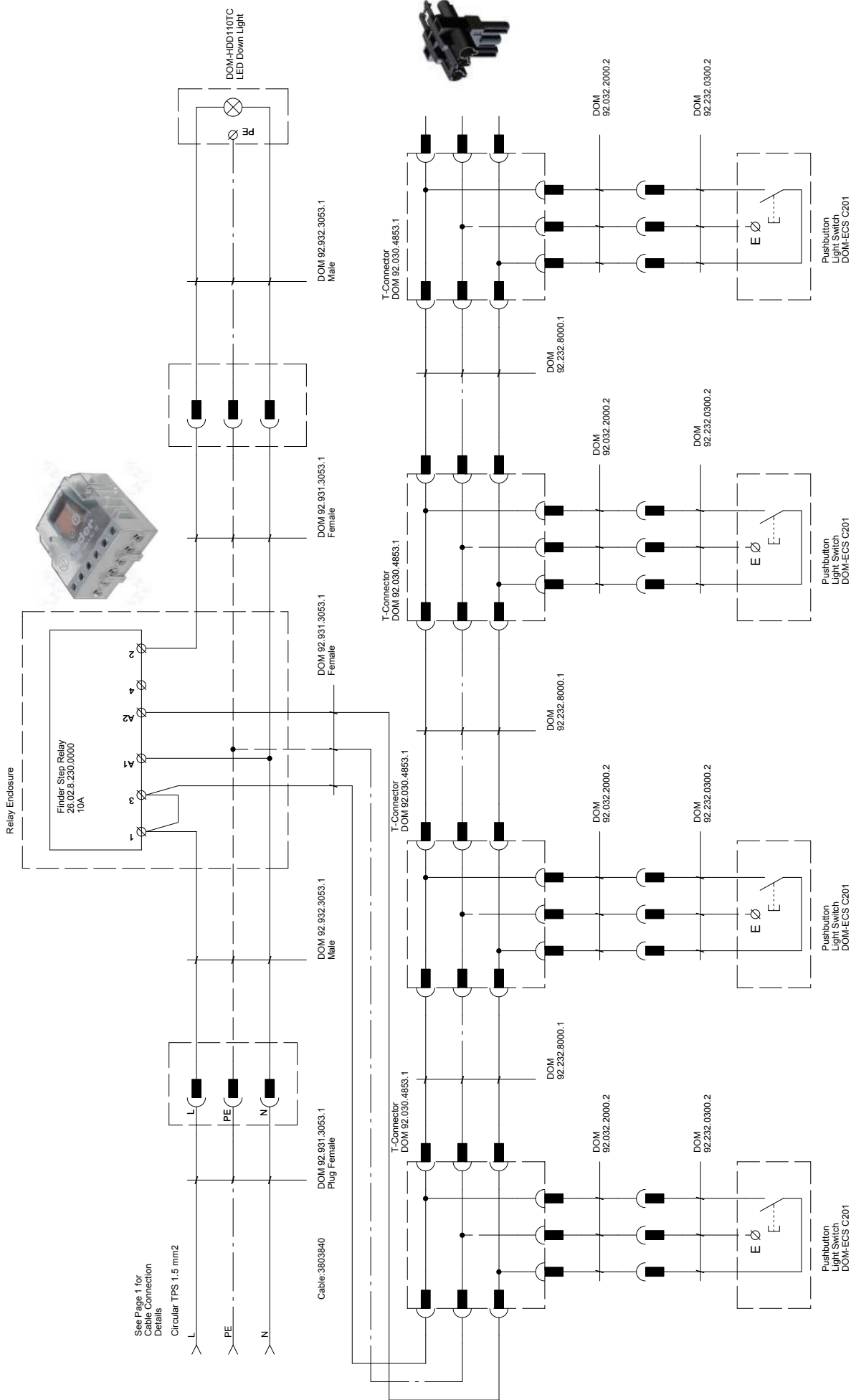
Lighting Connection Options. Four Gang Switch.



Lighting Connection Options. Multi-Way Switching

PCSCHMATIC AUTOMATION

Filename: C:\PCSELCD\PROJECT\ECS_Wireland_Domestic_Ver1



ecs
0800 849 2211

Customer:

Project Name: ECS Plug & Play Domestic Wiring System

Page Title: Lighting Connection Options. Multi-Way Switching

Drawn by: KL

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Last changed: 3/13/2014 7:04:

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Project rev.:

Page rev.:

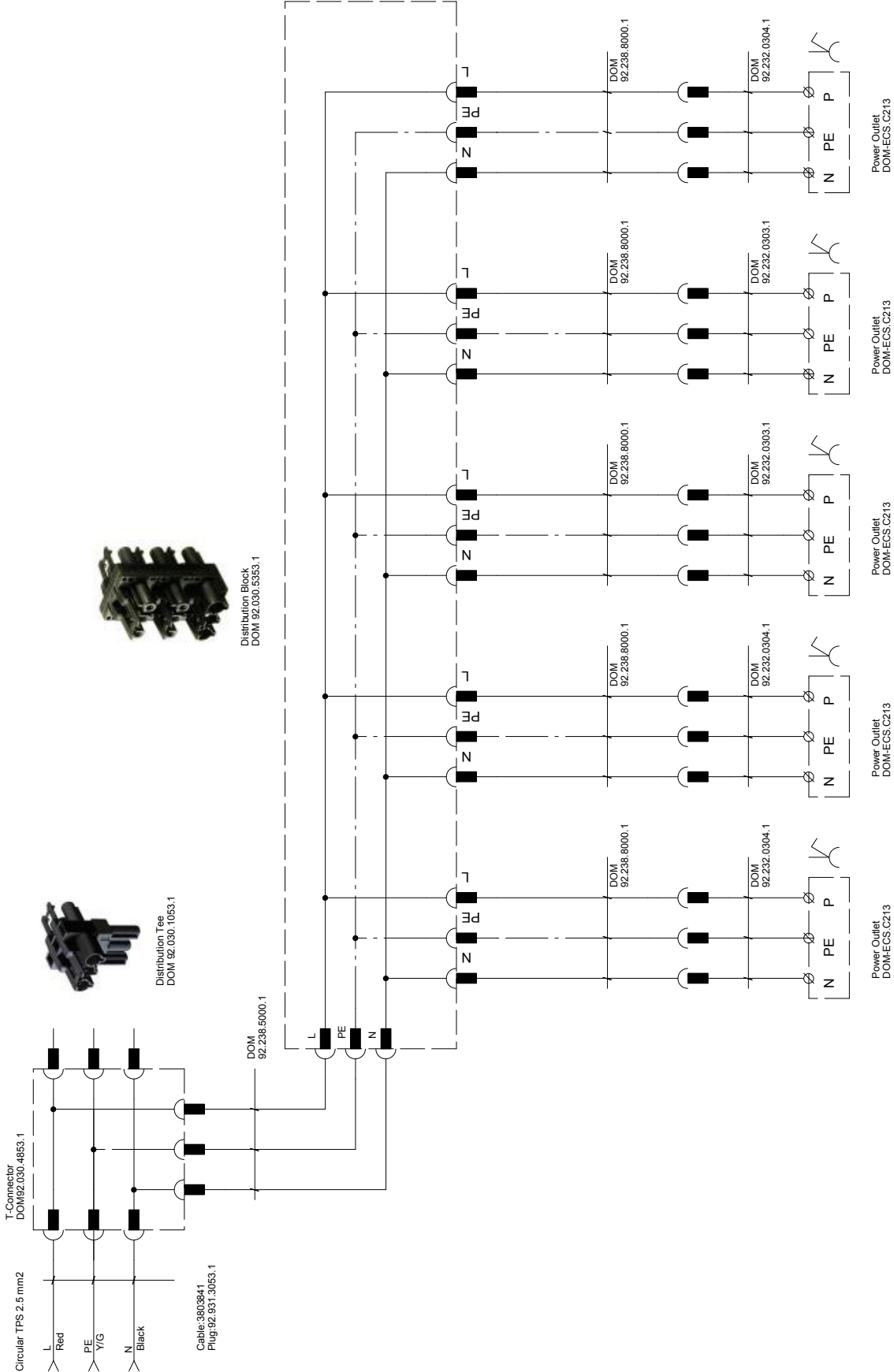
Page 5 of 13

Used pages: 15

Distribution Block 5-/Single Pole Details. Power Outlets

PQSCHEMATIC AUTOMATION

Filename: C:\PQSEL\CD\PROJECT\PCS Hybrid Domestic Ver1



ecs
0800 849 2211

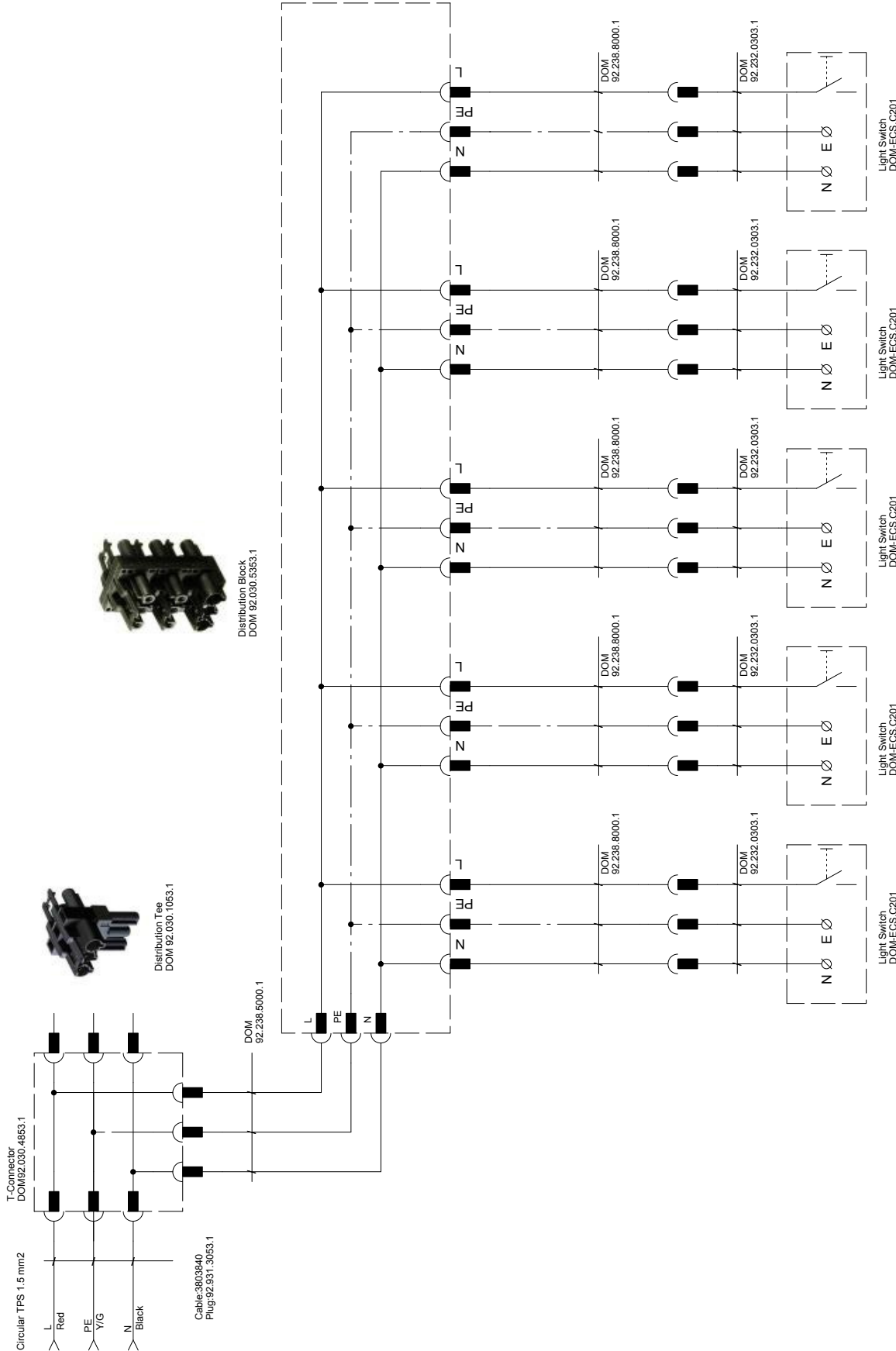
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Project Name: ECS Plug & Play Domestic Wiring System
Page Title: Distribution Block 5-/Single Pole Details. Power Outlets

Project no.:
Project rev.:
Page rev.:
Page 6 of 13
Used pages: 15

Distribution Block 5-/Single Pole Details. Light Switches

PC SCHEMATIC AUTOMATION

Filename: C:\PCSEL\CD\PROJECT\PCS Midland Domestic Ver1



0800 849 2211

Customer:

Project Name: ECS Plug & Play Domestic Wiring System

Page Title: Distribution Block 5-/Single Pole Details.Light Switches

Drawn by: KL

Appr.:

Last printed: 6/3/2014 9:22:1

Last changed: 6/2/2014 4:10:1

Project no.:

Project rev.:

Page rev.:

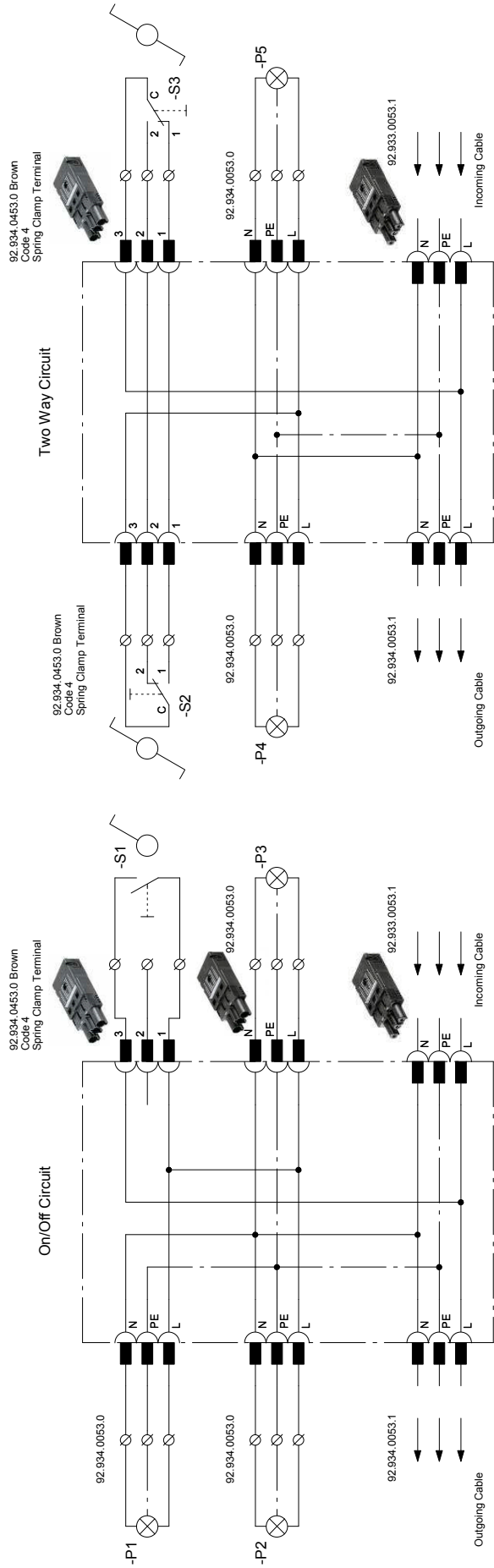
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Used pages: 15

HH Switching Distributor Layouts

PCSCHEMATIC AUTOMATION

Filename: C:\PCSEL\CD\PROJECT\ECS\Hiland Domestic- Ver1



HH Switching Distributor
92.030.0253.1
Black



HH Switching Distributor
92.030.0253.1
Black

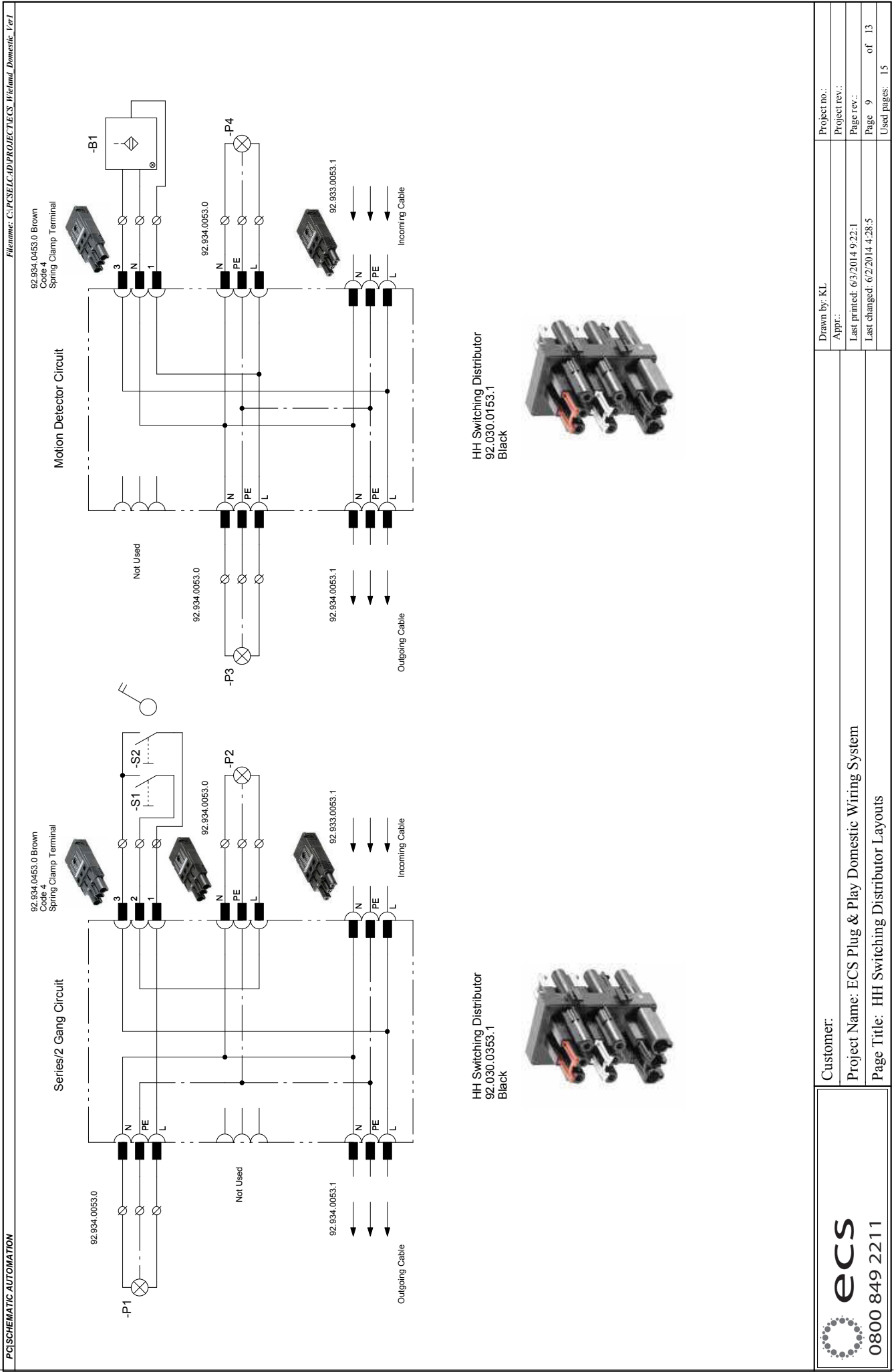


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Page Title: HH Switching Distributor Layouts

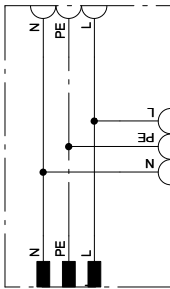
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Page 8 of 13
Used pages: 15

HH Switching Distributor Layouts

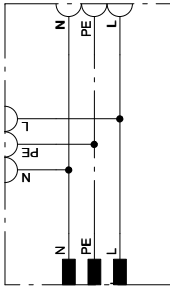


T Distributor and Connector Layouts

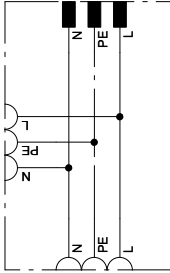
T Distributor
92.030.1053.0 White
92.030.1053.1 Black



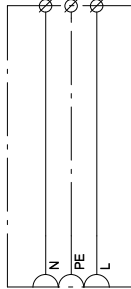
T Distributor Flat
92.030.1353.0 Black



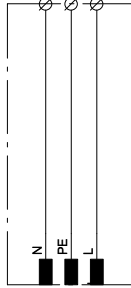
T Distributor Flat
92.030.1253.0 White
92.030.1253.1 Black



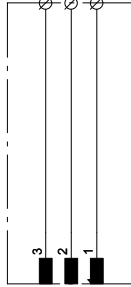
Female Connector
92.934.0053.0 White
92.934.0053.1 Black



Male Connector
92.934.0053.0 White
92.934.0053.1 Black



Male Connector
92.934.0453.0 Brown



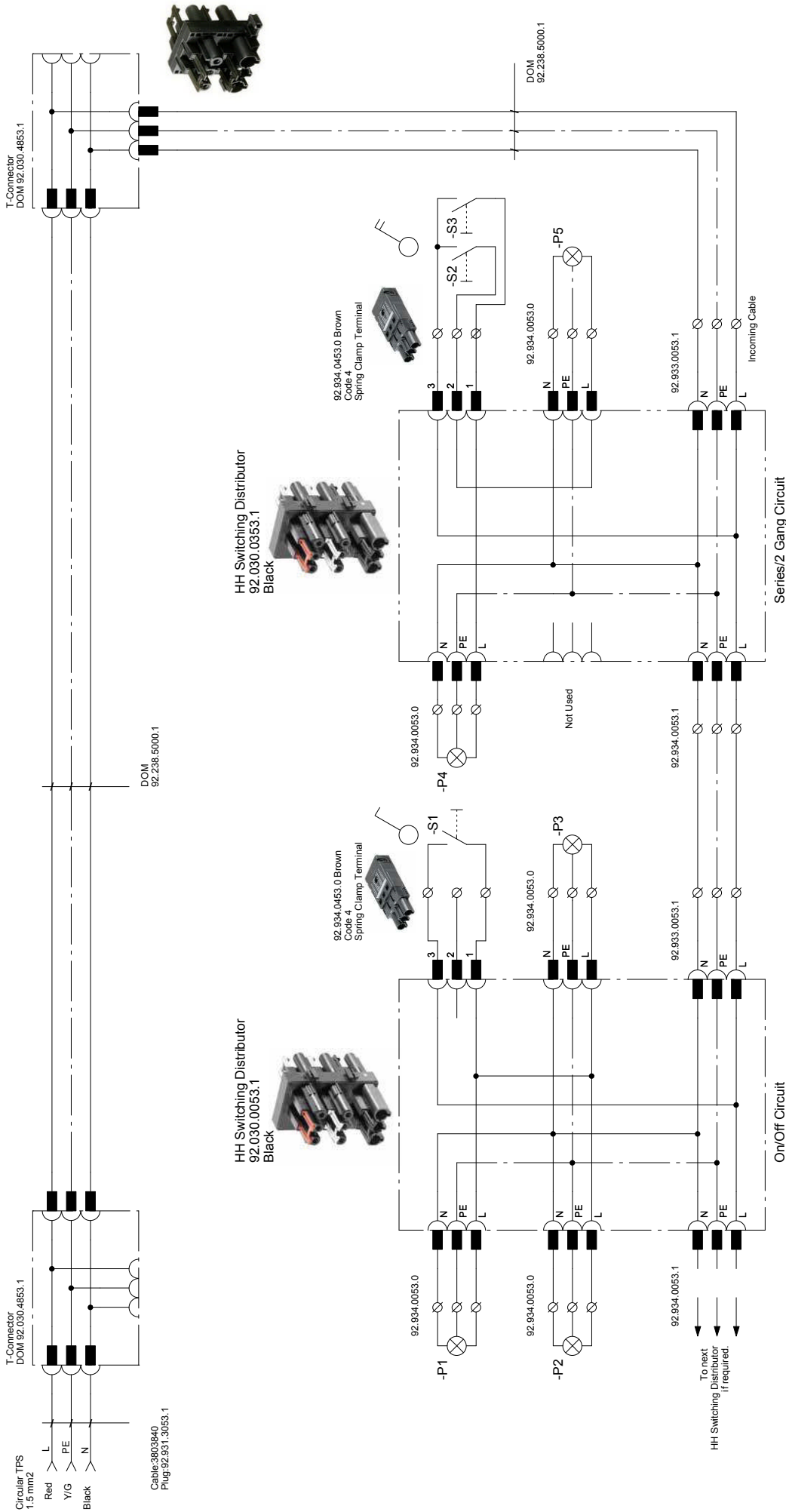
Connects to Switches,
Sensors etc.

Note:
All Terminals are Spring Clamp

On/Off & Series/2 Gang HH Switching Distributor Circuits

PC SCHEMATIC AUTOMATION

Filename: C:\PCSEL\CD\PROJECT\PCS Highland Domestic Ver1



0800 849 2211

Customer:

Project Name: ECS Plug & Play Domestic Wiring System

Page Title: On/Off & Series/2 Gang HH Switching Distributor Circuits.

Drawn by: KL

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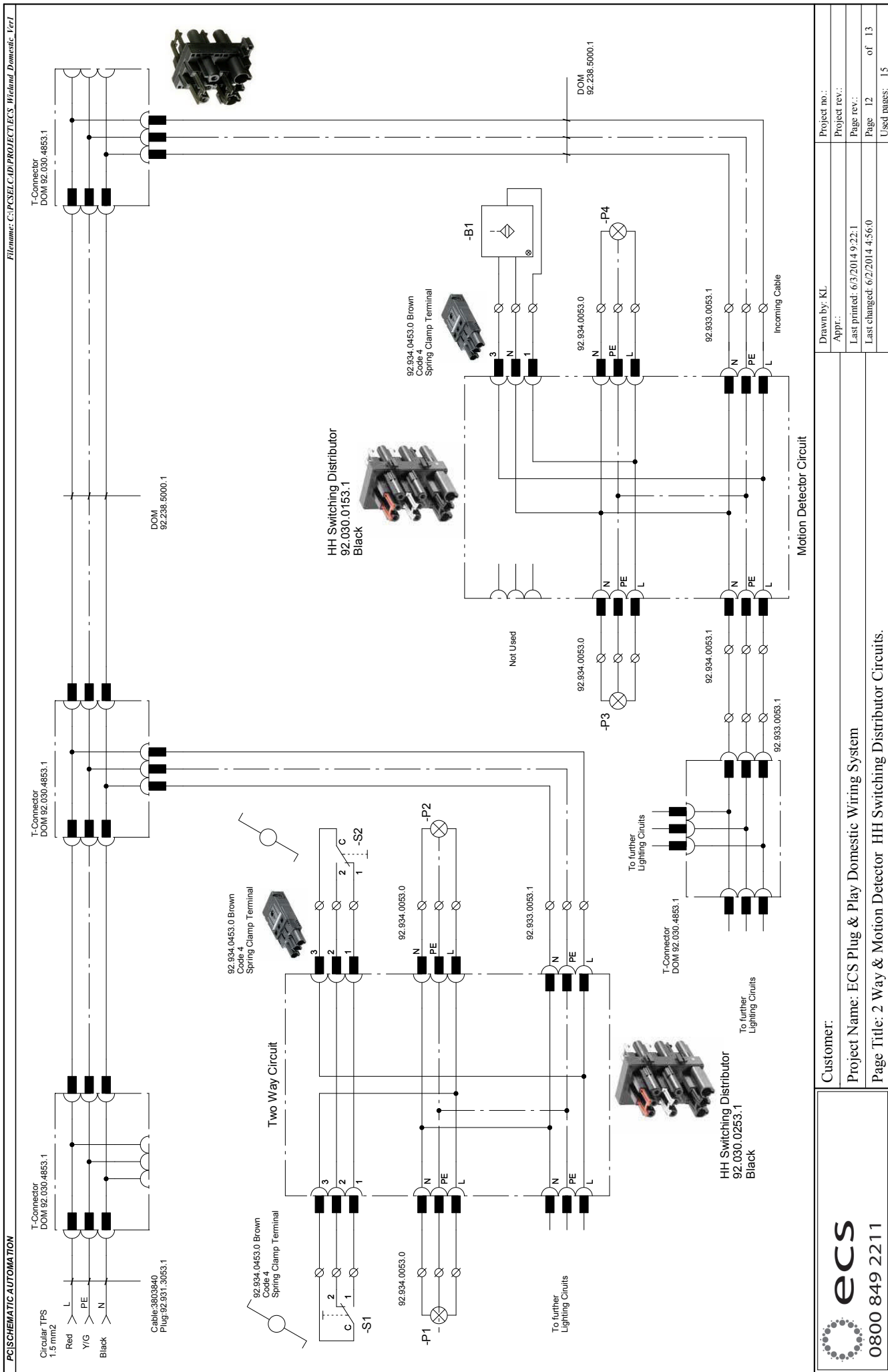
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Used pages: 15

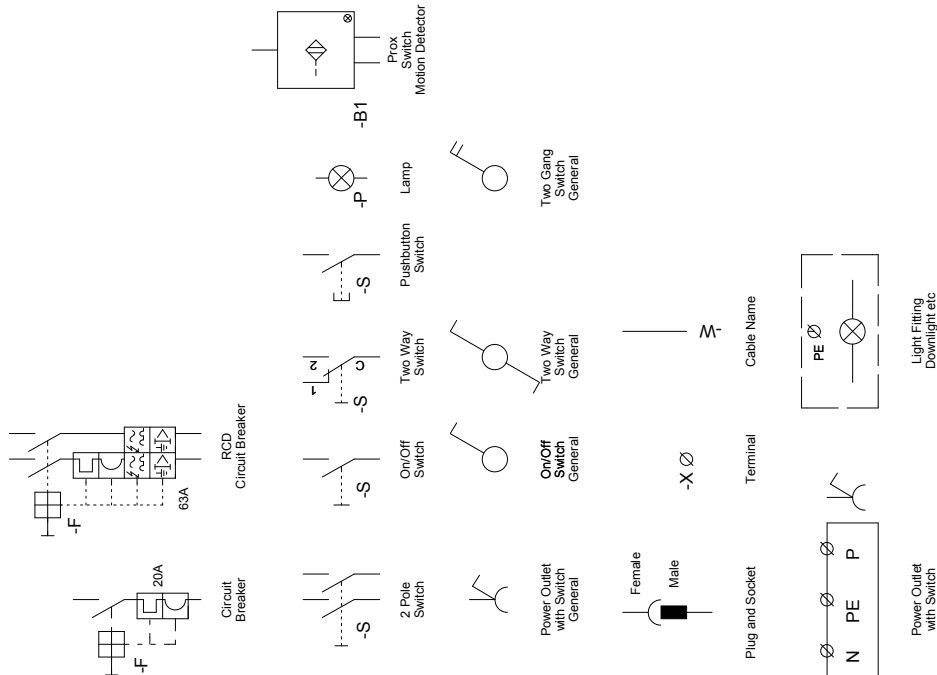
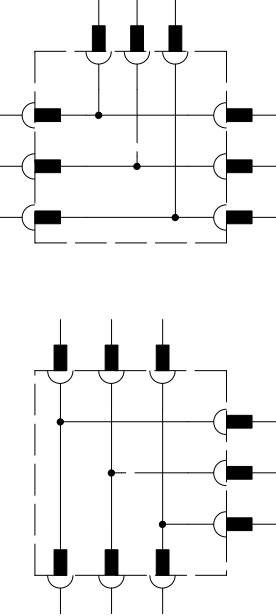
2 Way & Motion Detector HH Switching Distributor Circuits



Symbol Legend

PCISCHMATIC AUTOMATION

Filename: C:\PCSEL\CD\PROJECT\PCS Highland Domestic Ver1



0800 849 2211

Customer:

Project Name: ECS Plug & Play Domestic Wiring System

Page Title: Symbol Legend

Drawn by: KL

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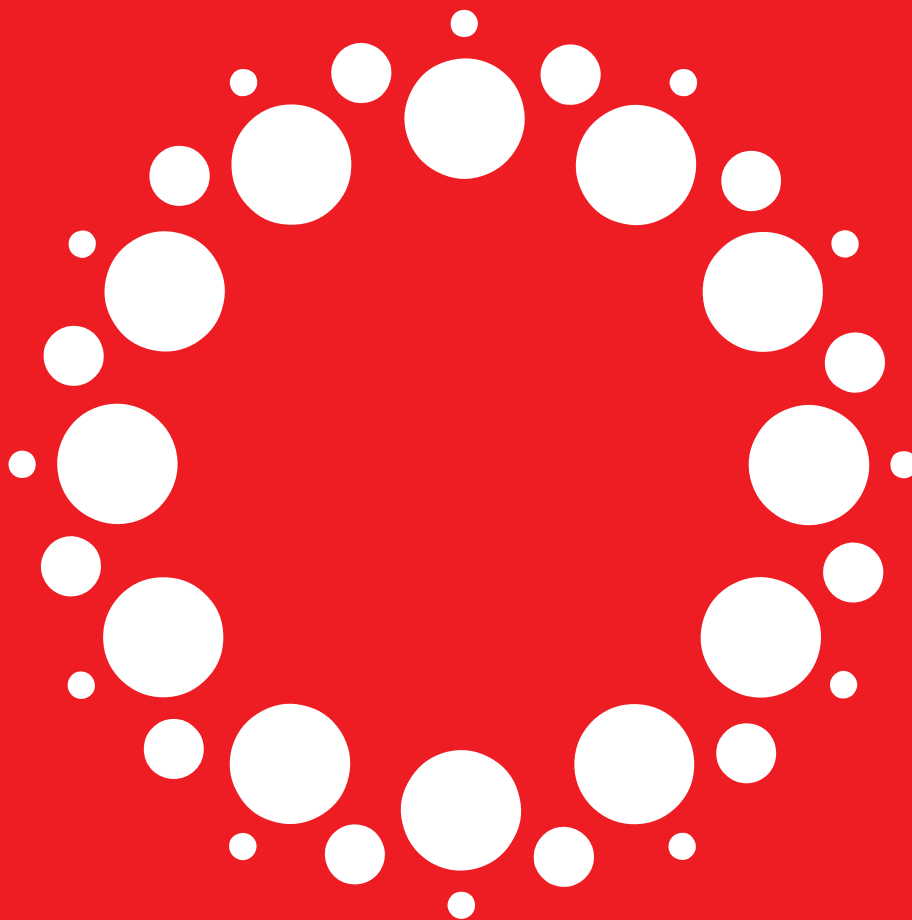
Project no.:

Project rev.:

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