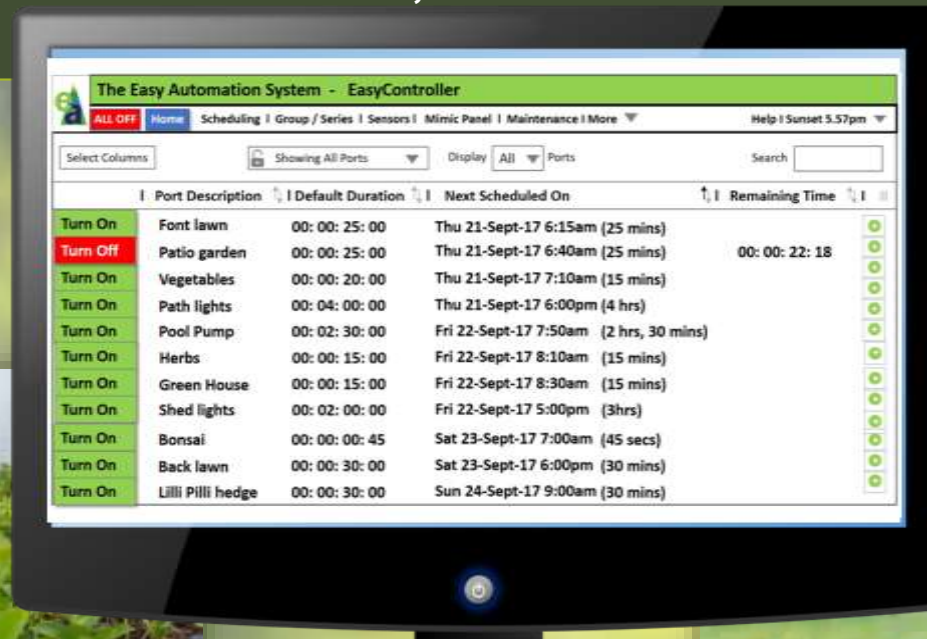# Easy Automation

Landscape Control System

Control irrigation, garden lighting, pumps, misters and more

Residential to commercial, DIY or Professional Installation

The Easy Automation System - EasyController

ALL OFF | Home | Scheduling | Group / Series | Sensors | Mimic Panel | Maintenance | More ▼ | Help | Sunset 5.57pm ▼

Select Columns | Showing All Ports ▼ | Display All ▼ Ports | Search

	Port Description	Default Duration	Next Scheduled On	Remaining Time
Turn On	Font lawn	00: 00: 25: 00	Thu 21-Sept-17 6:15am (25 mins)	
Turn Off	Patio garden	00: 00: 25: 00	Thu 21-Sept-17 6:40am (25 mins)	00: 00: 22: 18
Turn On	Vegetables	00: 00: 20: 00	Thu 21-Sept-17 7:10am (15 mins)	
Turn On	Path lights	00: 04: 00: 00	Thu 21-Sept-17 6:00pm (4 hrs)	
Turn On	Pool Pump	00: 02: 30: 00	Fri 22-Sept-17 7:50am (2 hrs, 30 mins)	
Turn On	Herbs	00: 00: 15: 00	Fri 22-Sept-17 8:10am (15 mins)	
Turn On	Green House	00: 00: 15: 00	Fri 22-Sept-17 8:30am (15 mins)	
Turn On	Shed lights	00: 02: 00: 00	Fri 22-Sept-17 5:00pm (3hrs)	
Turn On	Bonsai	00: 00: 00: 45	Sat 23-Sept-17 7:00am (45 secs)	
Turn On	Back lawn	00: 00: 30: 00	Sat 23-Sept-17 6:00pm (30 mins)	
Turn On	Lilli Pilli hedge	00: 00: 30: 00	Sun 24-Sept-17 9:00am (30 mins)	

evolutionary and revolutionary

The Easy Automation System - EasyController

ALL OFF | Home | Scheduling | Group / Series | Sensors | Mimic Panel | Maintenance | More ▼ | Help | Sunset 5.57pm ▼

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|	Port Description	Default Duration	Next Scheduled On	Remaining Time	
Turn On	Font lawn	00: 00: 25: 00	Thu 21-Sept-17 6:15am (25 mins)		➕
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Turn On	Vegetables	00: 00: 20: 00	Thu 21-Sept-17 7:10am (15 mins)		➕
Turn On	Path lights	00: 04: 00: 00	Thu 21-Sept-17 6:00pm (4 hrs)		➕
Turn On	Pool Pump	00: 02: 30: 00	Fri 22-Sept-17 7:50am (2 hrs, 30 mins)		➕

Settings | **Setup**

Irrigation valve ▼

Unused
Lighting 12V
Irrigation valve
Pump Relay
Diverter valve
Purge valve
DC Relay 12V
EasyPower

Easy Automation system so much more…

- No knobs, dials – intuitive screens
- Many watering or lighting areas
- Same cable for all zones
- Standalone & remote access
- Advanced features
  - ➢ Scheduling
  - ➢ Series, Groups,
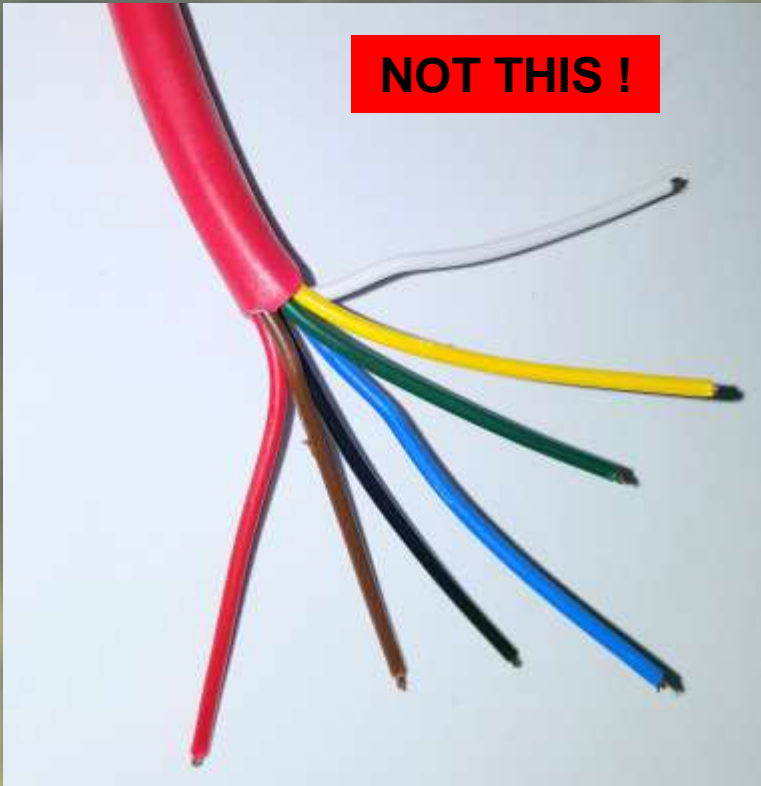 - ➢ Wet & Wait
  - & much more…

www.easyautomation.com.au

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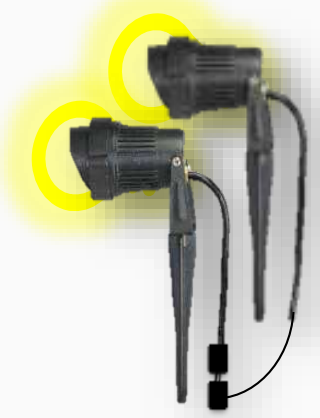
NOT THIS!

Conventional controllers have:-

- Old style knobs and dials
- Strictly limited number of zones
- No remote control
- No intuitive screen control
- No multi-user control
- No advanced scheduling (e.g. sunrise/sunset)
- Can't control lighting
- Can't control mains powered devices

NOT THIS !

YES THIS !

Not this delicate multi-wire cable.
This cable is strictly limited to control (in this case only 6 zones)- no expansion possible.

But this...
Only one single 2-core strong cable. This cable is used to connect any number of zones. It is laid over the landscape in any direction and branched if needed for unlimited expansion.

YES THIS!
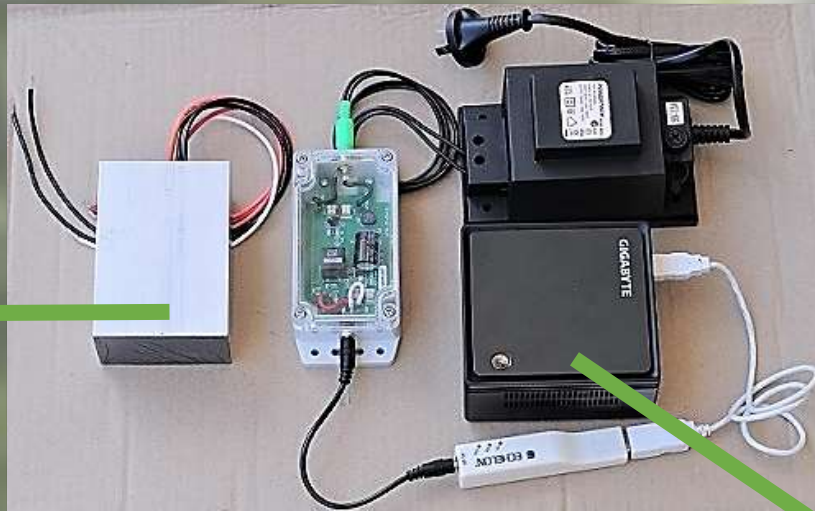
Easy Controller

Solid state special purpose computer attached to the back of a 22" high resolution touch screen + keyboard & mouse .
Use this as your main controller and/or connect to your router for full multiuser remote control on site or using any web enabled device such as smartphone, tablet, PC. All connected devices will show real time status.

EasySwitch

- Independently controls 2 ports/zones.
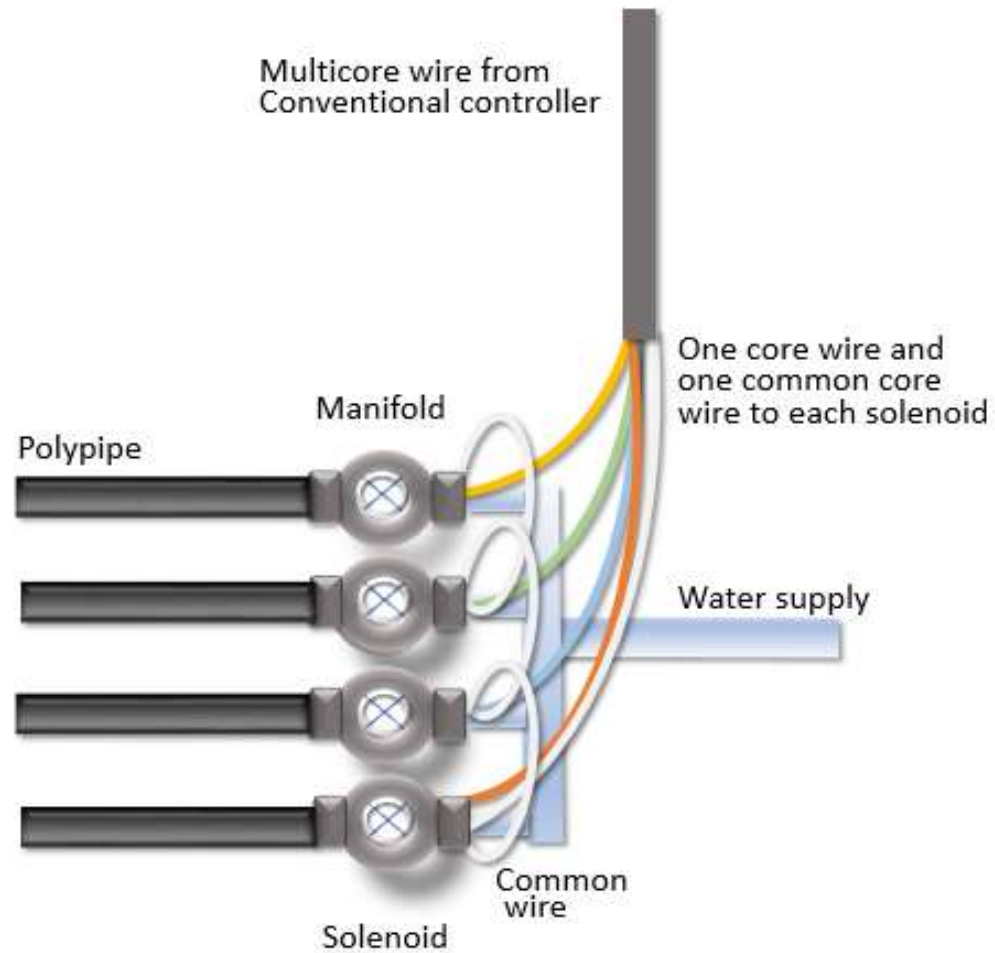- Can be connected anywhere along the powerline.

Each port can be set to control
- Standard 24vac irrigation solenoid valve
- Standard 12 volt garden lighting (up to 14 Watts)
- 12 volt relay to control 240vac mains devices
    e.g. pool pump, spot light, etc

Visit www.easyautomation.com.au

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CONVENTIONAL…
LABOUR INTENSIVE with LIMITED CORE WIRES / ZONES
EXPANSION IS DIFFICULT & COSTLY

Multicore wire from Conventional controller

One core wire and one common core wire to each solenoid

Manifold

Polypipe

Water supply

Solenoid

Common wire

Every conventional manifold/multiwire controller is limited by the number of wires in the multicore cable as well as the limiting controller.

It is labour intensive and presents maintenance issues, for example:-

- If a wire within the multicore cable should break- which wire & where?
- How do you add a new zone when all the wires in the multicore cable are used?
- What will it cost to dig and lay piping and extra cable?
- What will it cost to install an additional controller ?

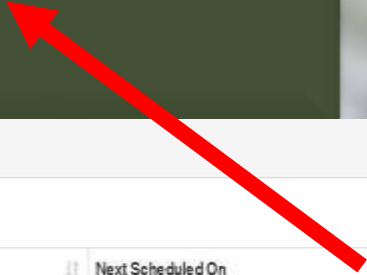**Unlike the conventional system, the Easy Automation System provides you: -**

- Access to all control functions on the touch screen and on smartphones, PCs or tablets.
- Full multiuser real-time control
- Simple screen displays for all functions
- Easy Automation screens enable user text e.g. "rose garden", "back lawn", "front lights ", etc
    Conventional systems number zones 1,2, 3 etc

Advanced features include
- Scheduling via sunrise/sunset
    e.g. turn your driveway lights on 15 minutes before sunset and set to turn off at 10:30pm
- Wet and wait cycling minimizes water runoff
- Series – set up several zones to turn on one after the other
    e.g. a large lawn will need several watering areas. A Series handles these as one area.
    These zones can be set up to automatically turn on one after the other and named as one.
    e.g. "Back lawn".
- Group - turn on zones together e.g. "All front lights"
- Duration to the second - useful for hydroponics, bonsai, seedlings, etc
- Automatically control (turn on and off) any and all pumps if required
- LED garden lights with dimming
- Control mains powered devices   e.g. pool pumps, fountains, spot lights, etc
- Advanced scheduling such as every nth day or specify days of the week and much more

Choose which columns to display such as...
Duration, Last Actual Runtime, Next Scheduled ON,
Remaining Time and more.
Sort any column.

Click the green TURN ON button for simple manual on. Button turns red to show ons.

Turn On
Turn Off

	ID	Port	Port Description	Zone	Use	Brightness	Setup Duration	Last Duration Used	Last Actual Runtime	Next Scheduled On	This ON runs for	Pump	Diverter	Purge	
Turn On	05025F326D00	PortB	Water feature	0	Lighting	80	Set Duration: 0 00:00:30	Set Duration: 0 00:00:30	29-Mar-2017 11:20:11 AM (30 secs)			Not required	Not required	Not required	⊕
Turn On	05025F636800	PortB	Veggie Garden irrigation	0	Lighting	100	Set Duration: 0 00:00:30	Set Duration: 0 00:00:30	29-Mar-2017 11:20:20 AM (30 secs)			Not required	Not required	Not required	⊕
Turn On	05025F5BAE00	PortA	TARDIS	0	Lighting	70	Set Duration: 0 00:00:30	Set Duration: 0 00:00:30	29-Mar-2017 02:04:10 PM (2 secs)			Not required	Not required	Not required	⊕
Turn On	05025F636800	PortA	Swimming Pool lights	0	Lighting	70	Set Duration: 0 00:01:15	Set Duration: 0 00:01:15	29-Mar-2017 02:02:33 PM (1 min, 15 secs)			Not required	Not required	Not required	⊕
Turn On	05025F5BAE00	PortB	Lawn TARDIS	0	Lighting	70	Set Duration: 00 00:01:00	Set Duration: 00 00:01:00	29-Mar-2017 11:20:17 AM (1 min)	Thu 30-Mar-2017 11:29:00 AM		Not required	Not required	Not required	⊕
Turn On	05025F676D00	PortB	Lawn bicycles	0	Lighting	50	Set Duration: 0 00:00:20	Set Duration: 0 00:00:20	29-Mar-2017 11:20:31 AM (20 secs)	Thu 30-Mar-2017 11:15:00 AM		Not required	Not required	Not required	⊕

	Port Description	Brightness	Setup Duration
Turn On	Driveway Lights	50	Turn off at: 10:30:00 PM

☑ Default Settings   📖 Setup   ⚙ Tools

Duration	0 06:05:00	**Turn off at**	10:30:00 pm	Sun Event

| Brightness | 50 | Low | 10 | 20 | 30 | 40 | **50** | 60 | 70 | 80 | 90 | Max |

| **No cycling** | Cycle | On cycle: | 0 00:00:00 | Off cycle: | 0 00:00:00 |

Turn Off

Ports 1 to

Click the green "+" to open and edit the controls for the selected zone

.

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	ID	Port	Port Description	Zone	Use	Brightness	Setup Duration	Last Duration Used	Last Actual Runtime	Next Scheduled On	This ON runs for	Pump	Diverter	Purge	
Turn On	05025F326D00	PortB	Water feature	0	Lighting	80	Set Duration: 0 00:00:30	Set Duration: 0 00:00:30	29-Mar-2017 11:20:11 AM (30 secs)			Not required	Not required	Not required	⊕
Turn Off	05025F636800	PortB	Veggie Garden irrigation	0	Lighting	100	Set Duration: 0 00:00:30	Set Duration: 0 00:00:30	29-Mar-2017 11:20:20 AM (30 secs)			Not required	Not required	Not required	⊕

Main Screen

Adjust duration

When a port is **ON**, you can <u>open the "edit panel"</u> for a selected port by clicking the "+"

button where you can adjust the remaining time instantly by adding (Add Time **+**) or

subtracting (Remove Time **-**) from the current remaining time.

Duration Adjustments   Remove Time **−**   00 00:10:00   Add Time **+**   ⬆ Apply Time Change

Add, move, remove irrigation solenoids and/or garden led lights anywhere along the 2 core-wire powerline cable

Add another EasySwitch
for 2 more independent ports/zones

Powerline cable

Blue line - water supply

Add an EasySwitch

Connect to a Solenoid Valve

Easy to extend/branch the powerline & water supply and then add EasySwitches where, when & if required!

Port ready to connect either another solenoid or LED lights & can remain unused until needed.

Water supply to solenoid

Polypipe water supply to sprinklers

Series control

Create a "series" of zones to automatically turn the zones on in order – one after the other.

ABOVE & BELOW OLIVES

Below ports function as a series turning "On" in the order below.

	ID	Description	Port Description	Port	Use
— Remove	🏷 05025F292300	Lower Garden	I: Above Olives	PortA	Irrigation
Start next port ⬇	Immediately	3 seconds BEFORE port ⬆ ends	After	3	
— Remove	🏷 05025F292300	Lower Garden	I: Below Olives	PortB	Irrigation

Series e.g. Start "Above Olives" first

Overlap to prevent water hammer. E.g. 3 secs

Then start "Below Olives" next

Group Default: ALL LIGHTS

Below ports function as a group (turning On/Off together).

	ID	Description	Port Description	Port	Use
Remove	05025F326D00	Model	Glasshouse	PortA	Lighting
Remove	05025F5BAE00	Model	TARDIS	PortA	Lighting
Remove	05025F636800	Model	Swimming Pool	PortA	Lighting
Remove	05025F63FF00	Model	Inside house	PortA	Lighting
Remove	05025F63FF00	Model	Driveway	PortB	Lighting
Remove	05025F676D00	Model	Lamp post	PortA	Lighting

GROUP
Turn all the selected zones ON simultaneously for the individual zone durations OR for a specified overall duration.

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Lighting 12 volt LED

New schedule for Driveway Lights - 05025F63FF00 - PortB

| Sunrise: 7:05 AM | Solar Noon: 1:01 PM | Sunset: 6:55 PM | Day Light: 11 hrs, 50 mins, 1 sec |

| Scheduled Start | 29-Mar-2017 | Start Time | 06:45 pm | Sun Event |

| 00:45 | | | Before | After | Sunrise | Solar noon | Sunset |

| Once | Repeat daily | 1 | Weekly | M | T | W | T | F | S | S |

| No Ending | End On | | End after x recurrences | |

Use default settings   📌 Override settings for this ON

| Duration | 00 00:00:00 | Turn off at | 11:00:00 PM | Sun Event |

| Brightness | 50 | Low | 15 | 30 | 50 | 60 | 70 | 80 | 90 | Max |

| No cycling | Cycle | On cycle: | 0 00:00:00 | Off cycle: | 0 00:00:00 |

↻ Reset   ✕ Cancel   Create new schedule

Conventional Irrigation Layout

Zone 1 Irrigation

Zone 2 Irrigation

Zone 3 Irrigation

Outside Area

e.g. Irrigation Solenoid

Port A
Red/White wires

Easy Switch

Port B
Pink/Orange wires

e.g. Irrigation Solenoid

Sprinkler

12v lights
E.g. LED Garden Lighting

Port A
Red/White wires

Easy Switch

Port B
Pink/Orange wires

Ball value

Backflow preventer
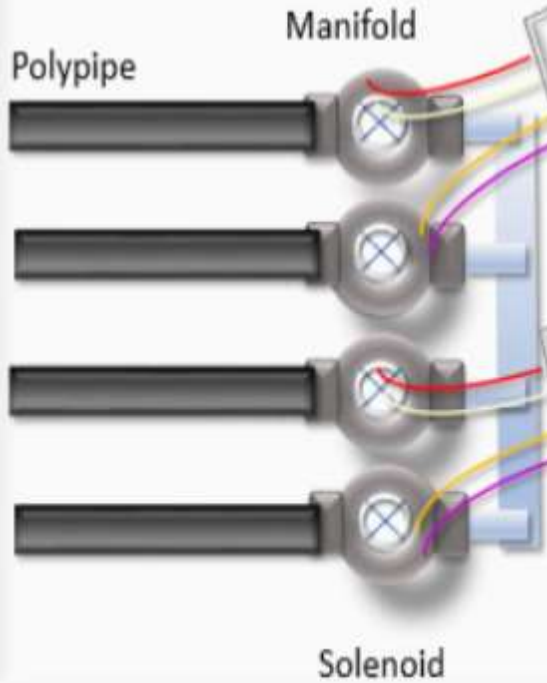
Filter

e.g. Irrigation Solenoid

Water supply piping

You can convert from the conventional muti-wire system to the Easy Automation system

For new installations, the powerline is simply run with the water supply around the landscape perimeter or wherever convenient and can be branched if needed.

New installation layout

Easy RetroFit

Multicore wire from conventional controller converted to the 2 core-wire powerline

Polypipe

Manifold

Trees

Roses

Herbs

Lawn

Solenoid

Insulation stripped from ends of each wire so that the metal to metal exposed wires are bundle connected.

and sealed to make the joins waterproof

EasySwitch

EasySwitch

Continue the powerline cable to add as many new zones as desired
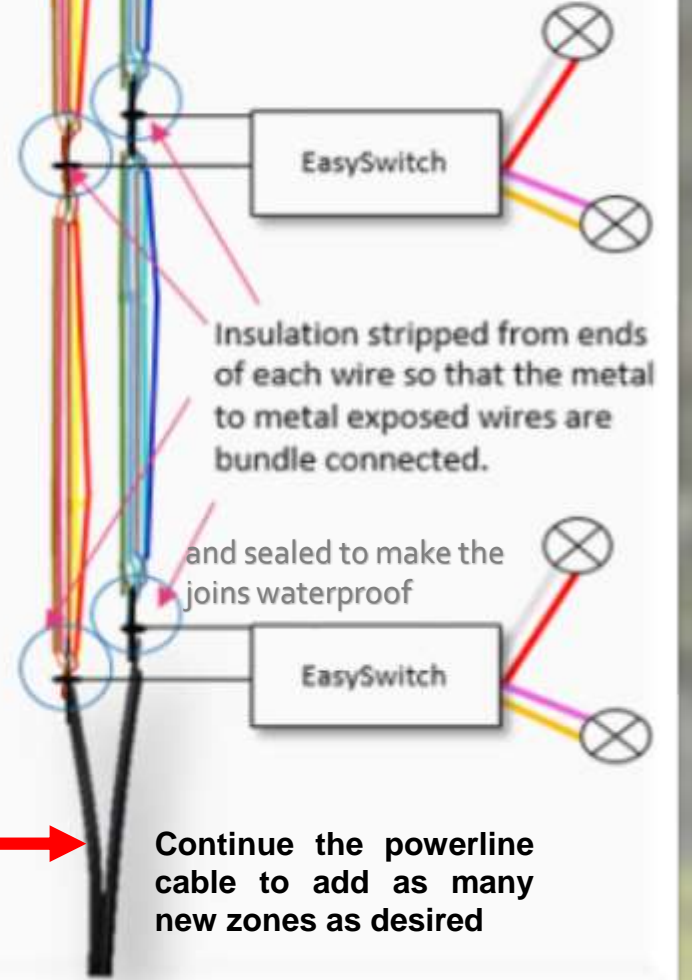
Overview of some of the main features …

- Uses only a single low voltage cable laid across the landscape which can be branched in any direction

- Uses less wiring, digging and piping - no need for the conventional multi-valve manifolds

- All control is screen based with remote access & multi-user control via your web browser over most internet (or Wi-Fi) connected devices (smartphone, laptop, tablet)

- Provides scalability & total flexibility - add, move or remove one to many zones easily

- Independently control many irrigation valves, LED lighting, mains powered devices and more

- Cycle watering – "Wet and Wait" for optimum penetration avoiding wasteful runoff

- Set durations to the second

- "Series" for controlling multiple zones as one entity in any sequential order & overlap ONs to minimize water hammer

- "Group" zones for simultaneous ONs – especially useful for lighting

- Scheduling via Sun events (Sunrise, Solar Noon, Sunset) or set times daily (Mon - Sun), weekly, every n_{th} day, etc

- Simple or very complex systems involving one or many pumps, diverters and purge valves (to flush hot water)

- Control mains powered devices e.g. pool pumps, fountains, spot lights, etc

- Use standard sensors (e.g. moisture, flow, temperature, wind, etc) with the EasySensor (scheduled for late 2018)

One controller and one cable

The 2 core cable can be run over hundreds of meters laid around the perimeter of a landscape or branched in multiple directions. The controller can handle hundreds of zones... not just irrigation!

Each EasySwitch has 2 independently controlled output ports which can be set to control**:-**
- ✓ **Standard irrigation valves (24vac)**
- ✓ **Standard 12-volt garden lighting**
- ✓ **Pump start relays & Diverter valves**
  Any and all that are required are automatically turned on and off as needed.
- ✓ **240vac mains powered devices**
  The EasySwitch ports connect to an EasyPower device to control up to 2 plugged in mains appliances

EasySensor devices The EasySensor device is used to connect up to 2 sensors to its 2 ports. One port can read an analogue voltage sensor such as moisture, temperature, UV, for analogue & pulse voltage output sensors (e.g. water, wind).

EasyPower devices - Plug in 240VAC appliances to be switched on/off manually or scheduled

Simple or complex scheduling - Practically unlimited starts (per day and in total). HH:MM or local sunrise/sunset/solar noon.

Durations - Can be set to the second or set to turn off at a specific time.

For residential to commercial
Professional Installation or DIY
One to a hundred or more zones

with

same controller

same cable

For more information
www.easyautomation.com.au
(02) 9489 4118
info@easyautomation.com.au