



Our vision, your safety



## Junction Box



Designed and  
Made in Australia

Established in 1981, Lucidity Enterprise Co., Ltd. is a premier worldwide manufacturer of vehicular safety lighting products. We have large scale operations in Taiwan, America (through Optronics) and Australia, with over 30 years of product development and innovation. Our complete range of vehicle lighting products, continuous product innovation and exceptional customer service has always been our major strength. We provide a very comprehensive range of products including wire harness, injection moulded products and electronics combinations. We start with a design at engineering level using the latest in AutoCAD and Solidworks to properly represent concepts and final design scenarios that our customers are asking for. We then take this information and transform this into deliverable prototypes and off tool samples. Should the final design already be achieved, we can cost effectively manufacture a product or range of products. At the design stage, we start with an open mind to better, smarter and more economical ways of manufacturing products within Australia. We have the only Australian Manufactured L.E.D. marker lamp system with pluggable and mountable options on the market, while maintaining a price competitive solution.



The IDM series Junction box has been designed specifically for the transport industry and any application requiring a heavy duty junction box. This product has the culmination of 20 years of application experience as its design foundation. As its designed for the rigours of the Australian transport industry the product is extremely robust and takes into account many different elements to ensure correct long lasting operation. The junction box can be supplied as a preassembled ready to go universal product or as a kit you can build yourself using the detailed buying index within this guide.

The IDM-Junction Box utilises industry accepted Deutsch connectors and has up to 11 input/outputs capable of handling up to 13 amps per circuit. All connections and interfacing parts offer a waterproof rating of IP67 and a breather gland to keep the Junction Box pressurised correctly inside and out. Many different configurations of preassembled cables are available and utilise the standard wiring colours you would expect to find within the transport industry. The interior termination board makes this product universally configurable by our trained experts in our manufacturing facility or by your trained technical staff.

Lucidity Australia is very proud to offer a product such as the IDM-Junction Box and believe that this product fulfils the needs of most manufacturer's operators and end users. The application range for this product is not limited to simple termination and input/output duplication. Complex power management and filtering can be included in this product ensuring correct voltages are applied to products such as steering locks and or voltage specific circuits. Other applications that can be included are RF remote control systems up to 8 channels to operate products such as rolling bodys, mezzanine floors, ramps up and down and other safety systems.

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JBS1  
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Page 5



12, 24 &  
Reduced 24V



Dust & Water  
Resistant



OEM  
Endorsed



Dangerous  
Goods

3970030

## Universal Junction Box



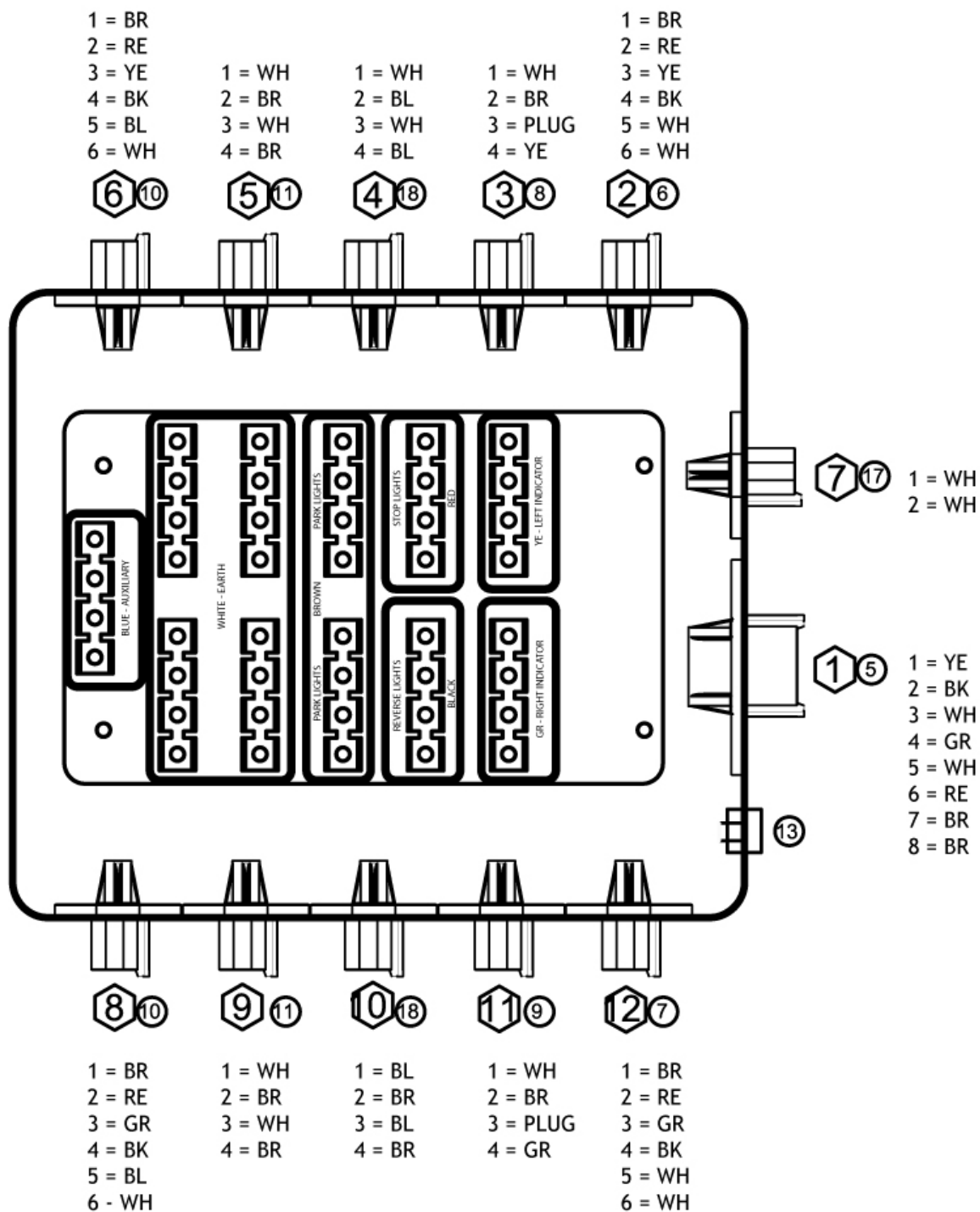
### Contents

Lid  
Circuit Board Including Terminals  
Gasket  
All Fixings  
Connector/Blanking Plug  
4 x Self Tapper  
8 x Nut  
8 x Washer  
8 x Bolt  
22 x Rivets

### Sub-Assemblies

(See Page 12-18 for further description)

2270145 x 1  
2270118 x 1  
2270119 x 1  
2270127 x 1  
2270128 x 1  
2270129 x 1  
2270125 x 2  
2270151 x 1  
2270155 x 1



Note: If a connector port is not used please ensure to purchase the appropriate cavity plug for proper sealment from water and dust ingress.

3970046

IDM Series Feature Junction Box



## Contents

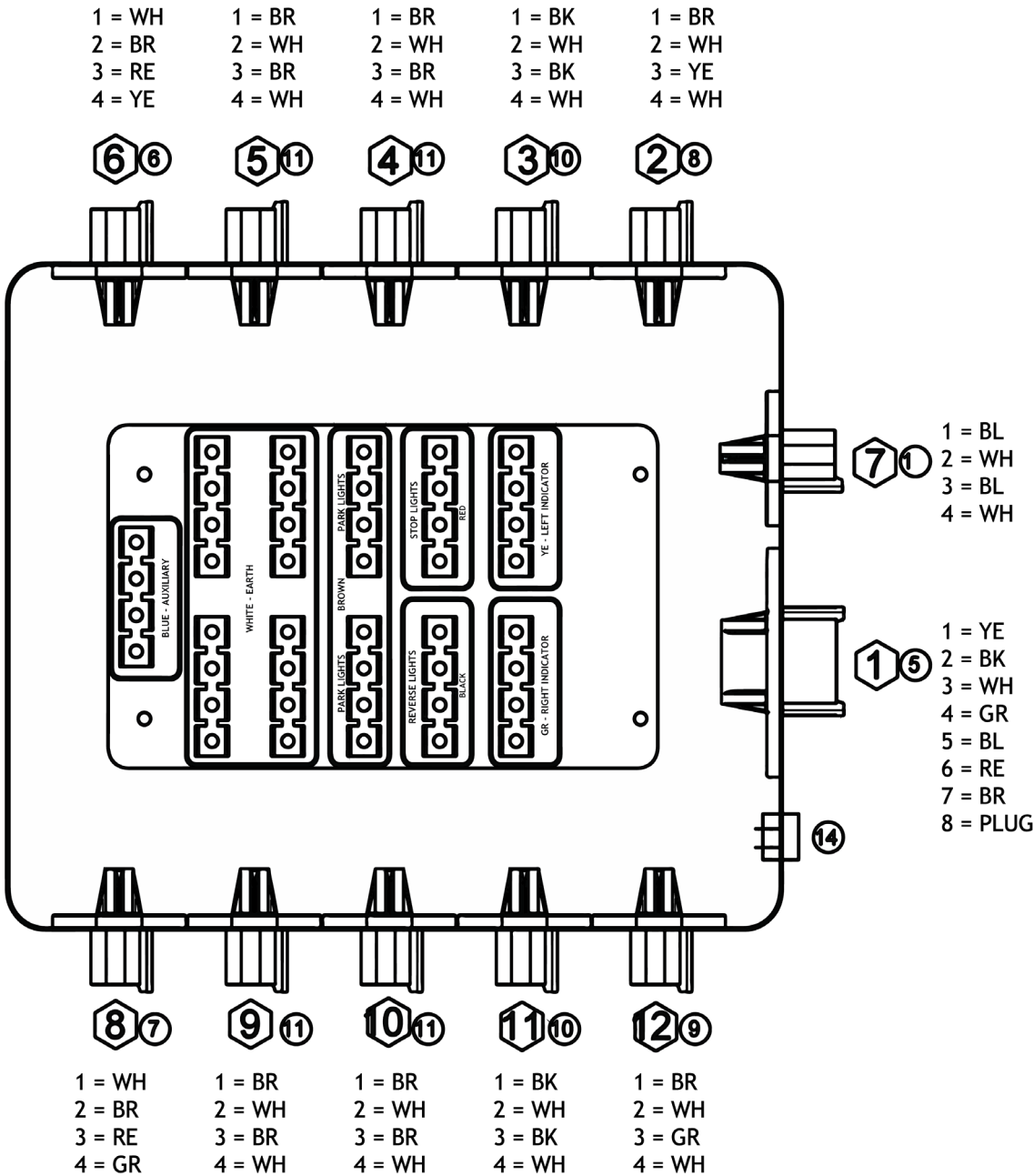
Lid  
Circuit Board Including Terminals  
Gasket  
All Fixings  
Connector/Blanking Plug  
8 x Nut  
8 x Washer  
8 x Bolt  
22 x Rivets  
8 x Self Tapper

## Sub-Assemblies

(See Page 12-18 for further description)

2270117 x 1  
2270120 x 1  
2270121 x 1  
2270122 x 1  
2270123 x 1  
2270124 x 2  
2270125 x 4  
2270126 x 1





Note: If a connector port is not used please ensure to purchase the appropriate cavity plug for proper sealment from water and dust ingress.

3970058

JBS1

12 x 2, 4, or 6  
Way DT Connector  
or  
Blanking Plug



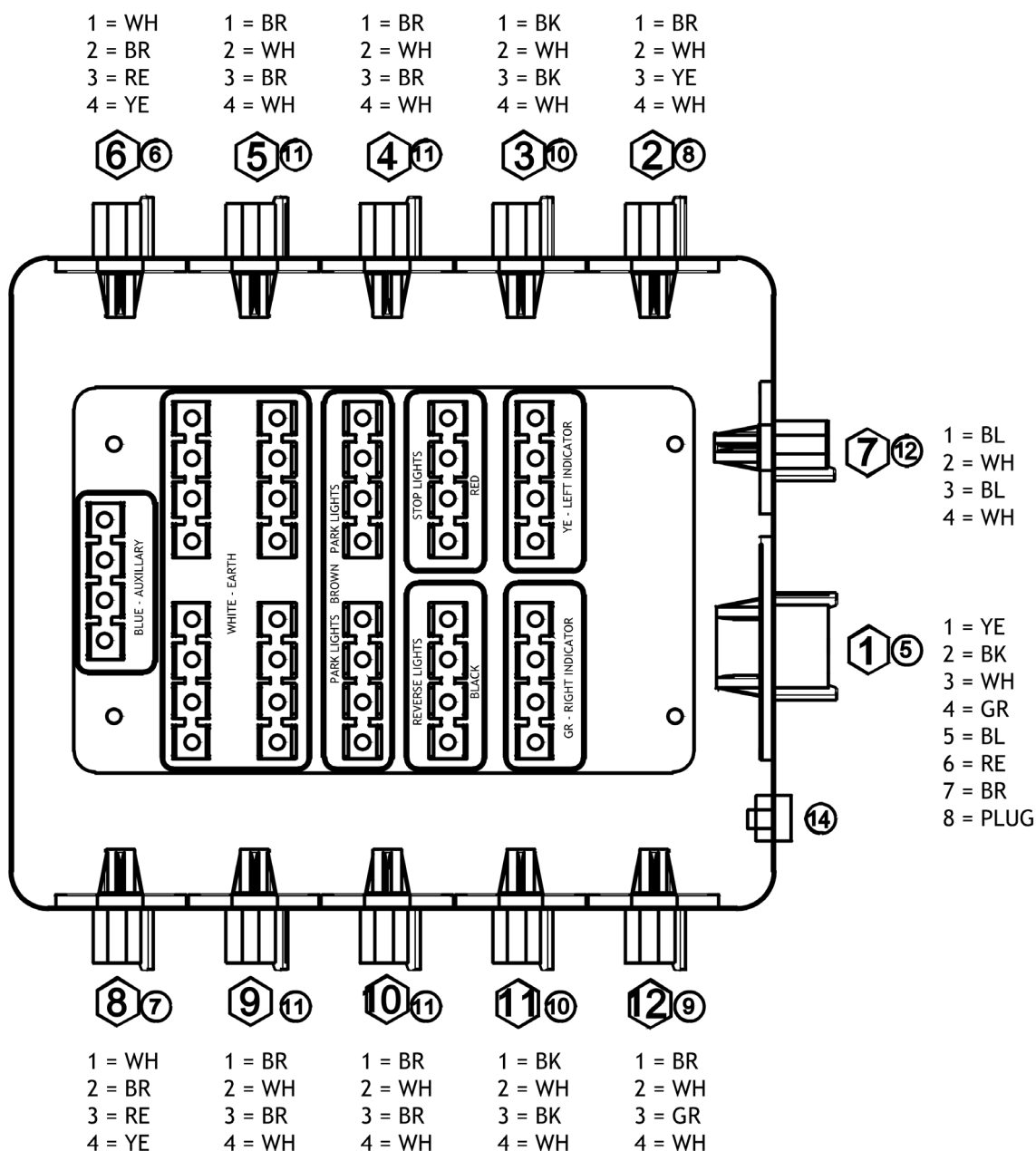
*(See Page 12-18 for further description)*

3970059

JBS2

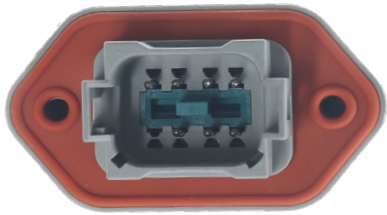
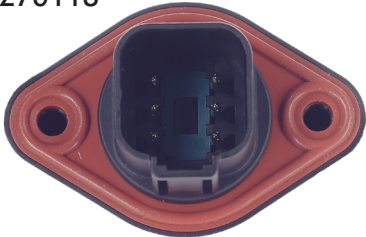
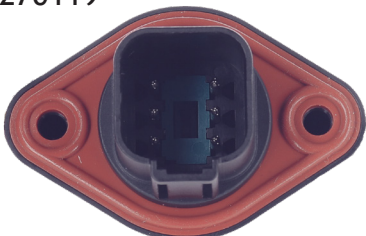
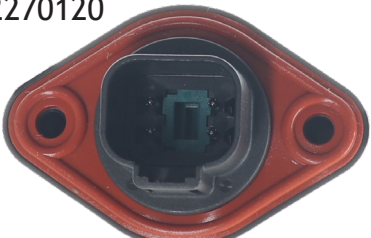
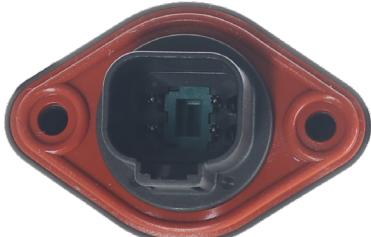
11 x 2, 4, 6  
Way DT Connector  
or  
Blanking Plug  
and  
1 x 8 Way





Note: If a connector port is not used please ensure to purchase the appropriate cavity plug for proper sealment from water and dust ingress.

# List of Sub-Assemblies

Part No.	Conector	Position	Wire Colour
2270117 	8 Way	1 2 3 4 5 6 7 8	<b>Yellow</b> <b>Black</b> <b>White</b> <b>Green</b> <b>Blue</b> <b>Red</b> <b>Brown</b> <b>Cavity Plug</b>
2270118 	6 Way	1 2 3 4 5 6	<b>Brown</b> <b>Red</b> <b>Yellow</b> <b>Black</b> <b>White</b> <b>White</b>
2270119 	6 Way	1 2 3 4 5 6	<b>Brown</b> <b>Red</b> <b>Green</b> <b>Black</b> <b>White</b> <b>White</b>
2270120 	4 Way	1 2 3 4	<b>White</b> <b>Brown</b> <b>Red</b> <b>Yellow</b>
2270121 	4 Way	1 2 3 4	<b>Yellow</b> <b>Brown</b> <b>Red</b> <b>Green</b>

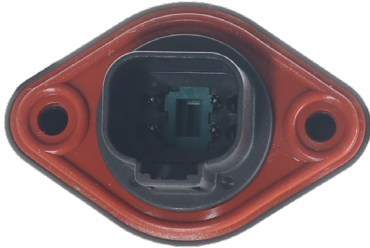
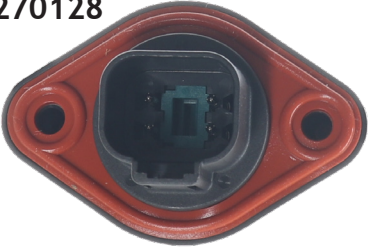
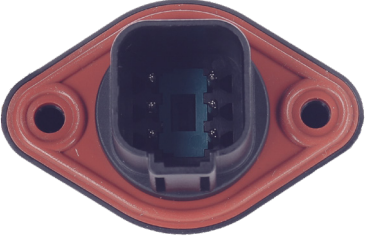
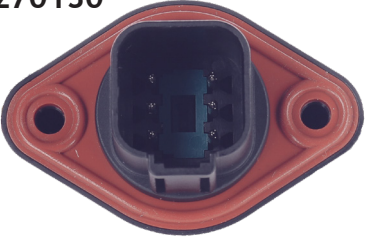



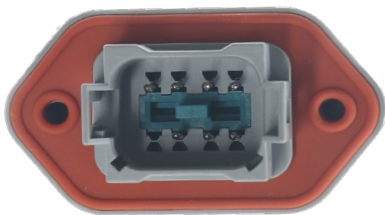
Part No.	Conector	Position	Wire Colour
2270122	4 Way	1 2 3 4	<b>Brown</b> White <b>Yellow</b> White
2270123	4 Way	1 2 3 4	<b>Brown</b> White <b>Green</b> White
2270124	4 Way	1 2 3 4	<b>Black</b> White <b>Black</b> White
2270125	4 Way	1 2 3 4	<b>Brown</b> White <b>Brown</b> White
2270126	4 Way	1 2 3 4	<b>Blue</b> White <b>Blue</b> White



*Note: Sub-Assemblies Wiring Functions/Colours are Customizable Upon Request*

# List of Sub-Assemblies


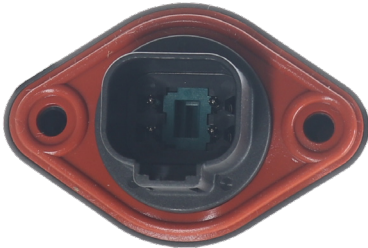

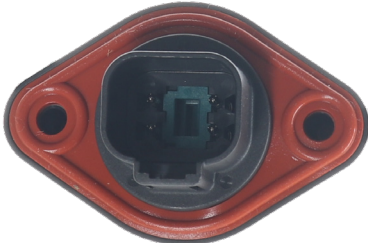

Part No.	Conector	Position	Wire Colour
2270127 	4 Way	1 2 3 4	White <b>Brown</b> <b>Plug</b> Yellow
2270128 	4 Way	1 2 3 4	White <b>Brown</b> <b>Plug</b> Green
2270129 <i>(Note Special SUB for L &amp; R Ramp connection. Blue does not go to PCB only between both connectors)</i> 	6 Way      6 Way	1 2 3 4 5 6  1 2 3 4 5 6	<b>Brown</b> <b>Red</b> Yellow Black <b>Blue</b> White  <b>Brown</b> <b>Red</b> Green Black <b>Blue</b> White
2270130 	6 Way	1 2 3 4 5 6	White <b>Brown</b> <b>Red</b> Green Yellow Black
2270131 <i>(Plus Loose wire to Join to Power Module)</i> 	2 Way	1 2	<b>BR/GR</b> White

Part No.	Conector	Position	Wire Colour
<b>2270142</b> <i>(Plus Loose wire to Join to Power Module)</i> 	2 Way	1 2	<b>BK/WH</b> White
<b>2270143</b> <i>(Plus Loose wire to Join to Power Module)</i> 	2 Way	1 2	<b>Orange</b> White
<b>2270145</b> 	8 Way	1 2 3 4 5 6 7 8	<b>Yellow</b> <b>Black</b> White <b>Green</b> White <b>Red</b> <b>Brown</b> <b>Brown</b>
<b>2270151</b> 	2 Way	1 2	White White
<b>2270155</b> <i>(Note: Note all wires go to PCB. Only Wh &amp; BR)</i> 	4 Way        4 Way	1 2 3 4    1 2 3 4	<b>Blue</b> <b>Brown</b> <b>Blue</b> <b>Brown</b>   White <b>Blue</b> White <b>Blue</b>

# List of Sub-Assemblies

Part No.	Conector	Position	Wire Colour
2270195	6 Way	1 2 3 4 5 6	White Brown Red Yellow Green Blue
2270196	8 Way	1 2 3 4 5 6 7 8	White Brown Red Yellow Green Blue Black Cavity Plug
2270197	8 Way	1 2 3 4 5 6 7 8	Red Blue Purple Blue Blue Blue Black White
2270198	8 Way	1 2 3 4 5 6 7 8	Purple Brown Red Yellow Green Blue White Cavity Plug
2270199	2 Way	1 2	White Blue



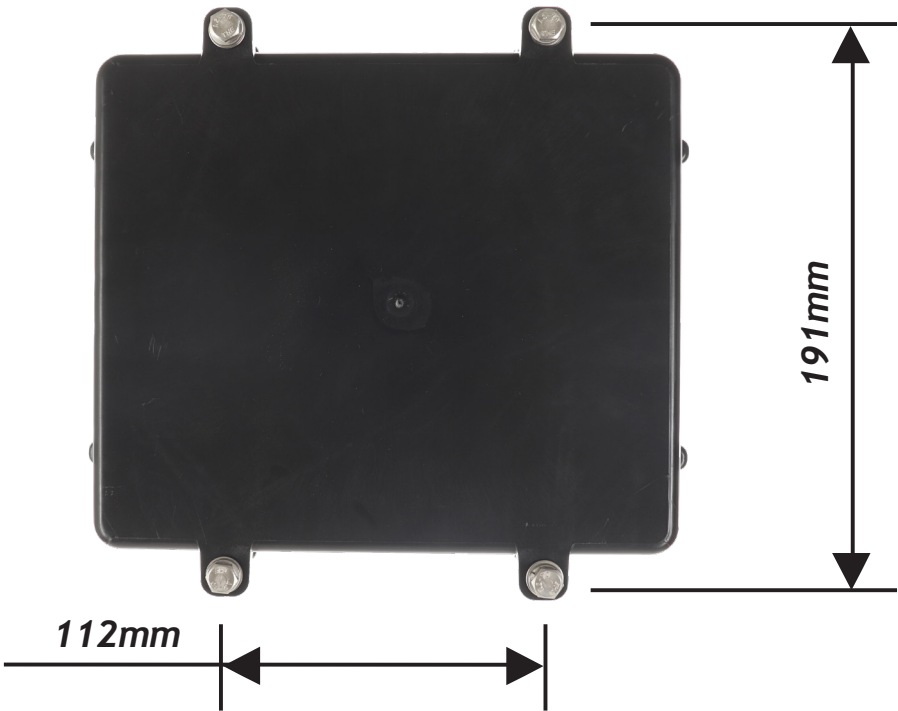
Part No.	Conector	Position	Wire Colour
2270200 	2 Way	1 2	White Red
2270204 	4 Way	1 2 3 4	Blue White Blue Blue
2270215 	2 Way	1 2	White Red
2270216 	4 Way	1 2 3 4	White Red Cavity Plug Cavity Plug
2270217 (Plus Loose wire to Join to Power Module) 	2 Way	1 2	Black White

# List of Sub-Assemblies

Part No.	Conector	Position	Wire Colour
<b>2270218</b> (Plus Loose wire to Join to Power Module) 	2 Way	1 2	Black White
<b>2270219</b> 	8 Way	1 2 3 4 5 6 7 8	Yellow Black White Green Blue Red Brown Orange
<b>Cavity Plug - 136901002031</b> 	2 Way		
<b>Cavity Plug - 136901002011</b> 	4 Way		
<b>Cavity Plug - 136901002021</b> 	6 Way		
<b>Blanking Plug - 3970057</b> 	Applicable to all.		



Mounting Holes



JBS1  
3970058



Note: JBS1 exclude all 8 way connectors.

JBS2  
3970059



Note: If a connector port is not used please ensure to purchase the appropriate cavity plug for proper sealment from water and dust ingress.

Box Type	Sub-Assembly Part No.	Quantity
	2270117 (8 Way)	
	2270118 (6 Way)	
	2270119 (6 Way)	
	2270120 (4 Way)	
	2270121 (4 Way)	
	2270122 (4 Way)	
	2270123 (4 Way)	
	2270124 (4 Way)	
	2270125 (4 Way)	
	2270126 (4 Way)	
	2270127 (4 Way)	
	2270128 (4 Way)	
	2270129 (6 Way)	
	2270130 (6 Way)	
	2270131 (2 Way)	
	2270142 (2 Way)	
	2270143 (2 Way)	
	2270145 (8 Way)	
	2270151 (2 Way)	
	2270155 (4 Way)	
	2270195 (6 Way)	



Box Type	Sub-Assembly Part No.	Quantity
	2270196 (8 Way)	
	2270197 (8 Way)	
	2270198 (8 Way)	
	2270199 (2 Way)	
	2270200 (2 Way)	
	2270204 (4 Way)	
	2270215 (2 Way)	
	2270216 (4 Way)	
	2270217 (2 Way)	
	2270218 (2 Way)	
	2270219 (8 Way)	
	2 Way Cavity Plug	
	4 Way Cavity Plug	
	6 Way Cavity Plug	
	Blanking Plug	

## For All Enquiries

Name:

Company:

Email:

Note: Please scan complete order forms to [sales@lucidity-au.com](mailto:sales@lucidity-au.com) or head to [www.lucidityaustralia.com.au](http://www.lucidityaustralia.com.au) for a digital version.



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