



Our vision, your safety

Electrical Junction Box Catalogue 2023-2024



Designed &
Made in Australia



www.lucidityaustralia.com.au

A Global Player

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.



Our Story

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 14 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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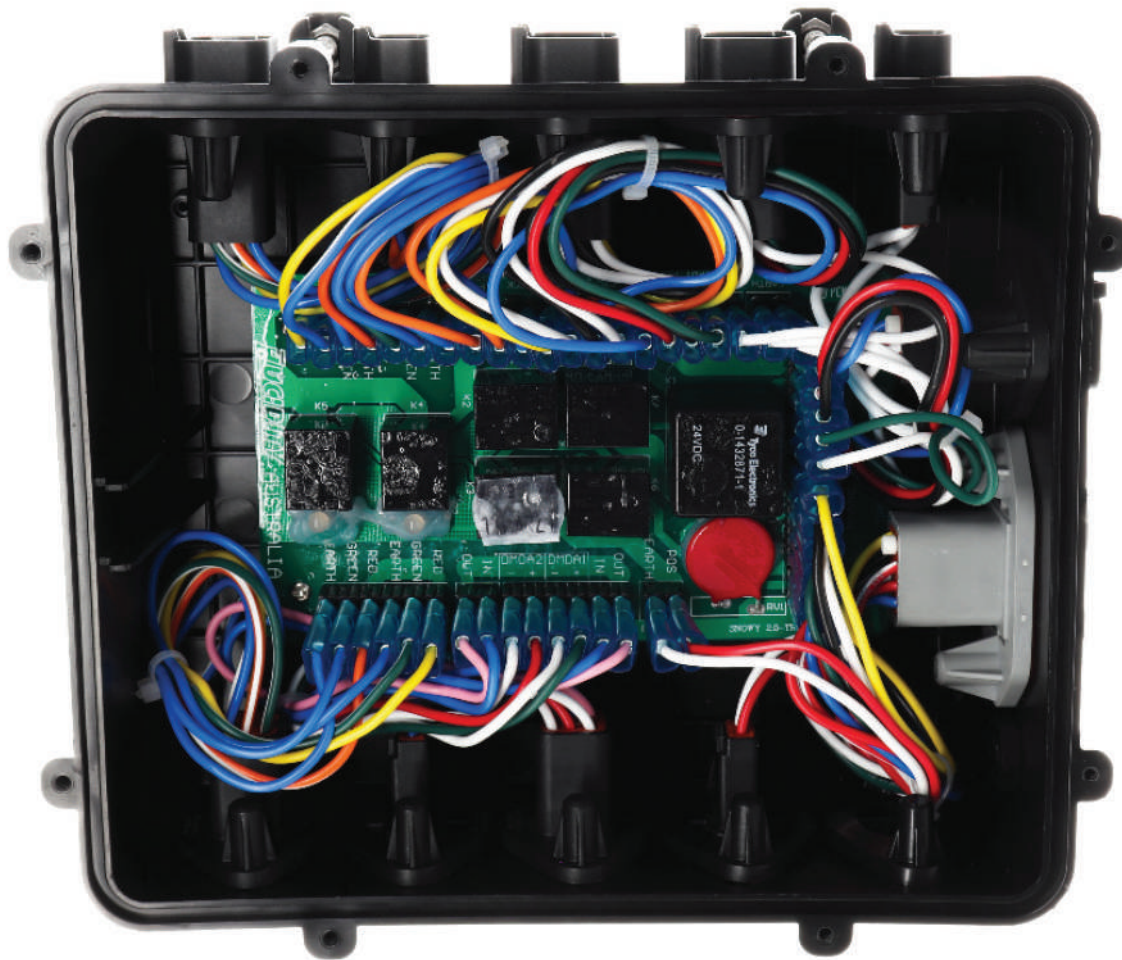


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Junction box including custom integrated circuit



The Picture Shown above offers:

- **Integrated Relays**
- **Input Surge Protection Operating Multiple Inputs and Outputs**
- **6.3mm Tab Receptical Interface to Deutsch Connector**
- **Input and Output Interlocks**
- **3 Oz Copper PCB**
- **Designed for Heavy Duty Applications**

3970030 - Universal Junction Box 1



Contents

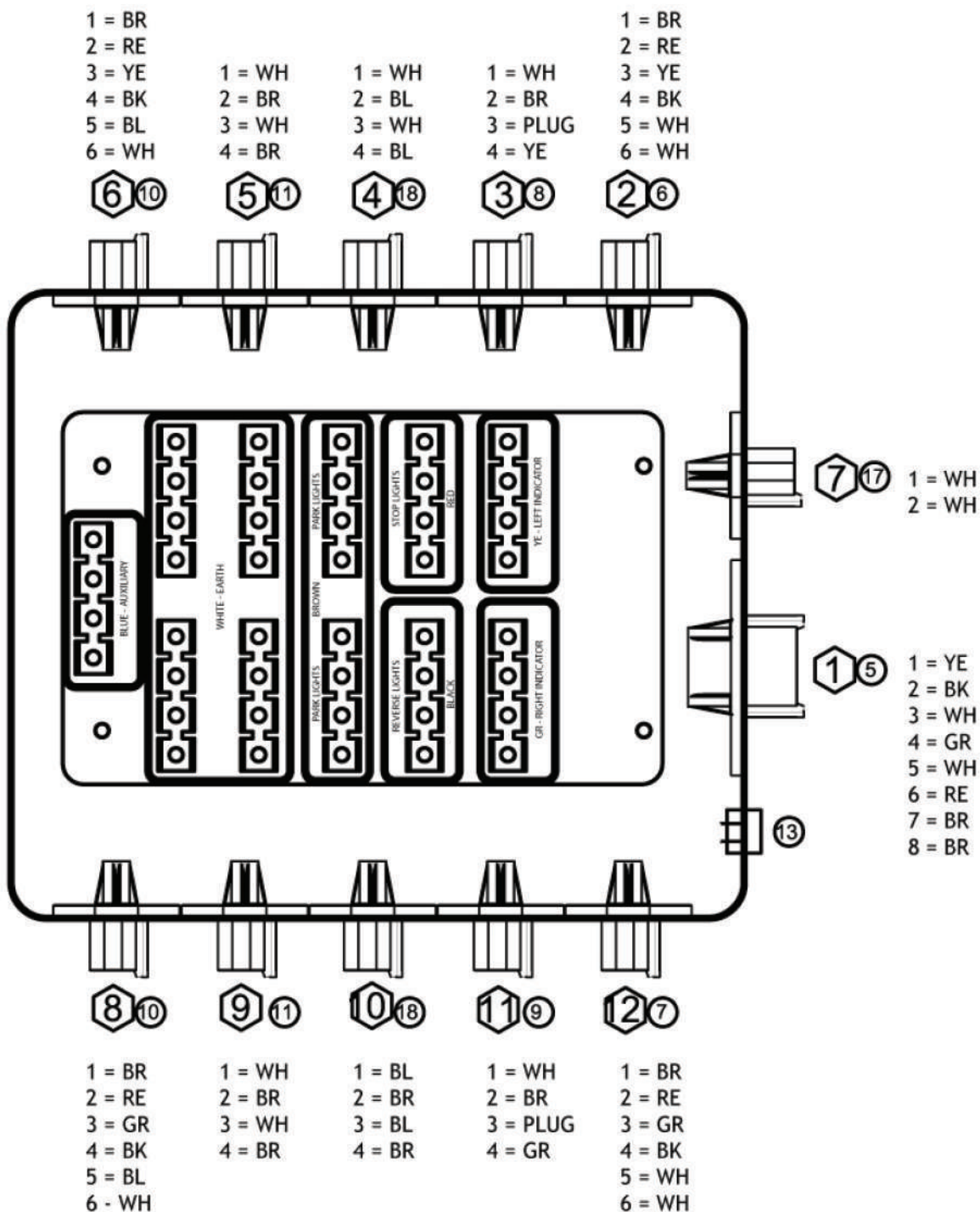
- Lid
- Circuit Board Including Terminals
- Gasket
- All Fixings
- Connector/Blanking Plug
- 4 x Self Tapper
- 8 x Nut
- 8 x Washer
- 8 x Bolt
- 22 x Rivets

Sub-Assemblies

(See Page 11-17 for further description)

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

Note: Excludes Board & Rivets



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

3970046 - Universal Junction Box 2



Contents

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

Sub-Assemblies

(See Page 11-17 for further description)

2270117 x 1

2270120 x 1

2270121 x 1

2270122 x 1

2270123 x 1

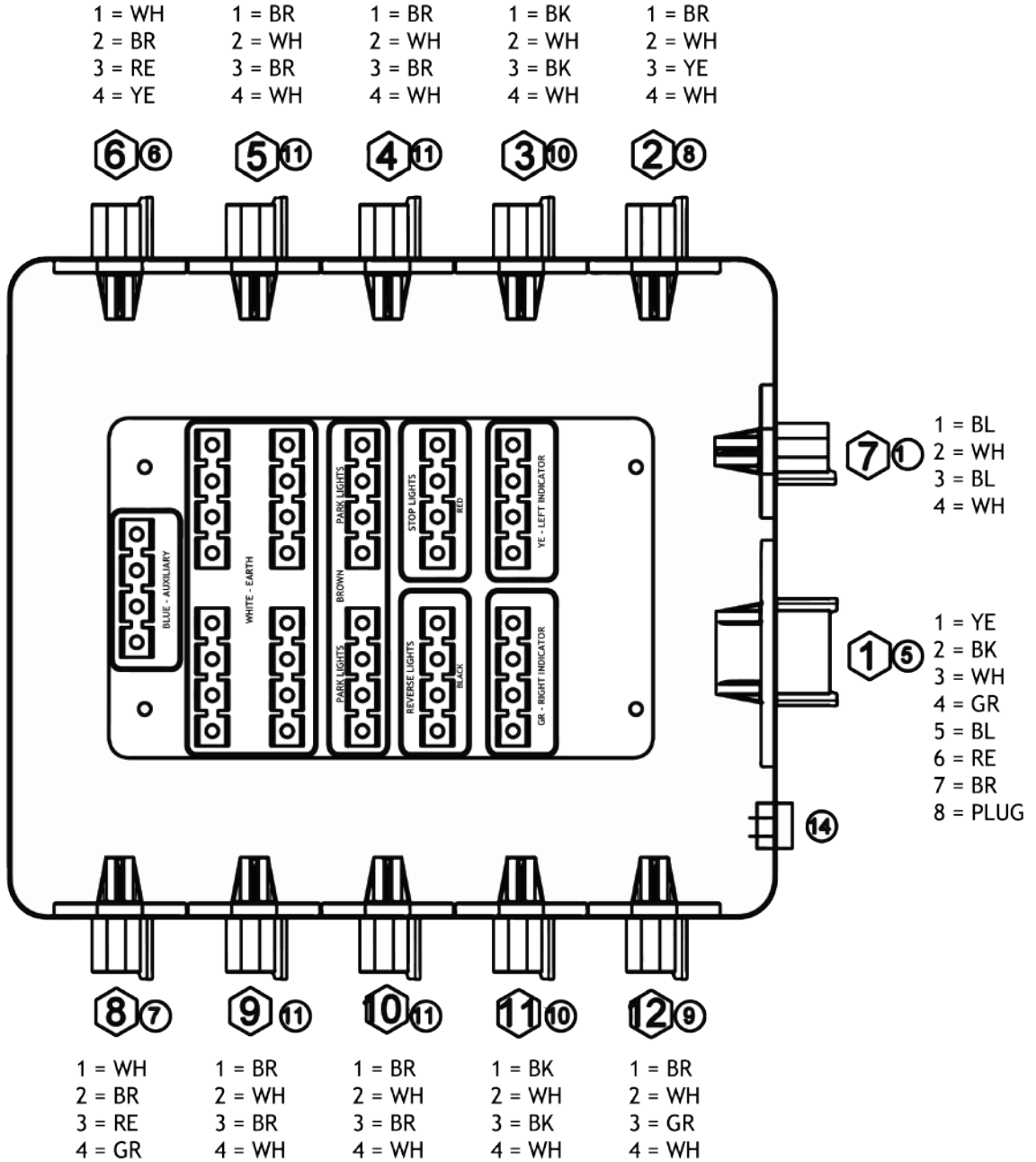
2270124 x 1

2270125 x 1

2270125 x 4

2270126 x 1

Note: Excludes Board & Rivets



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

Lid



3970058

JBS1



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

3970059

JBS2



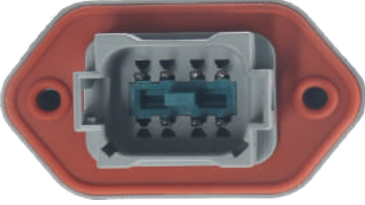
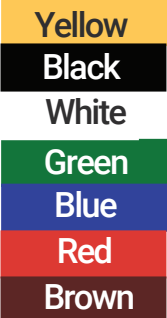
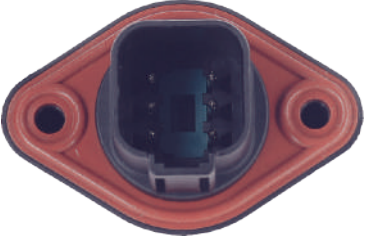

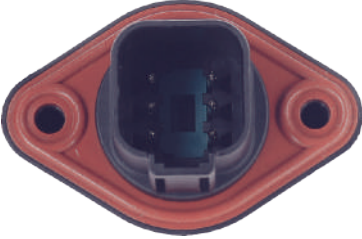

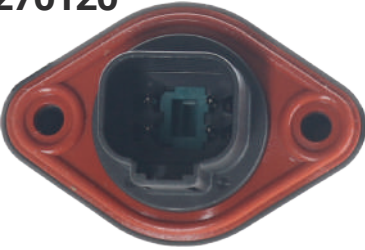



11 x 2, 4 or 6
 Way DT Connector
 or
 Blanking Plug
 and
 1 x 8 Way

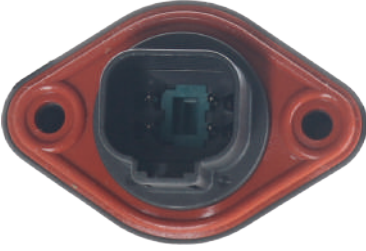
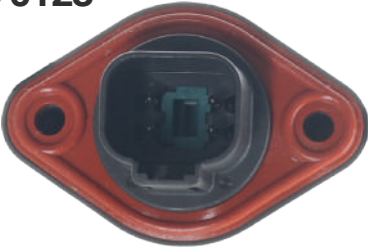
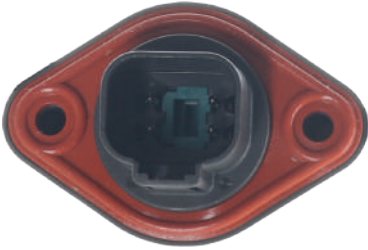
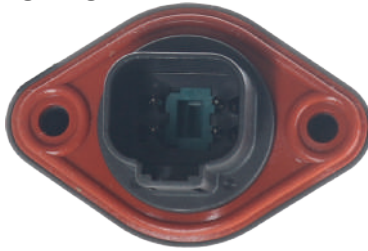
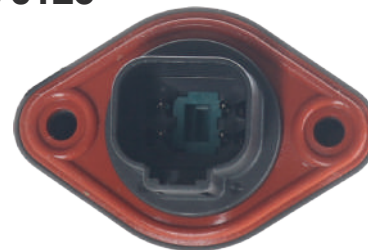
3970087

JBS3



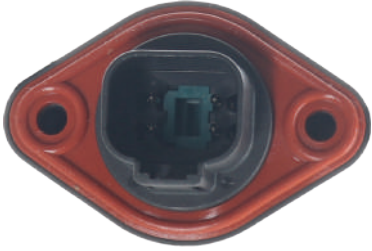
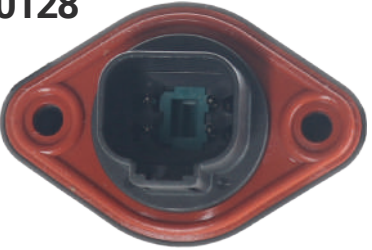
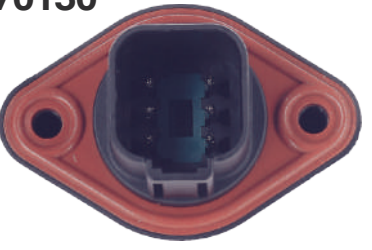
12 x 2, 4 or 6 Way
 DT Connector
 or
 Blanking Plug
 and
 1 x 8 Way
 1 x 12 Way



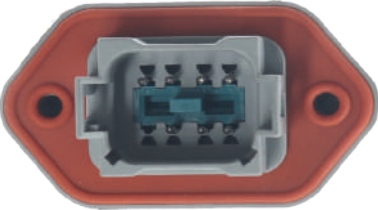

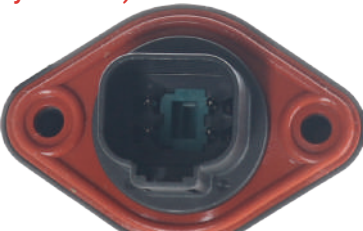
Part No.	Conector	Position	Wire Colour
2270117 	8 Way	1 2 3 4 5 6 7 8	 Cavity Plug
2270118 	6 Way	1 2 3 4 5 6	
2270119 	6 Way	1 2 3 4 5 6	
2270120 	4 Way	1 2 3 4	
2270121 	4 Way	1 2 3 4	

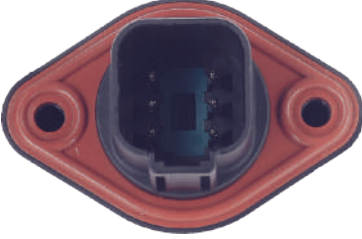
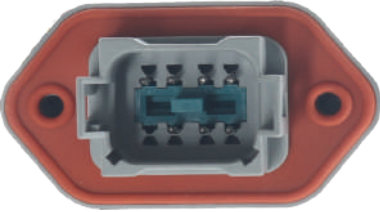

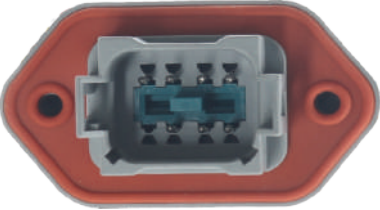

Part No.	Conector	Position	Wire Colour
2270122 	4 Way	1 2 3 4	<div style="background-color: #8B4513; color: white; padding: 2px;">Brown</div> <div style="background-color: white; color: black; padding: 2px;">White</div> <div style="background-color: #FFD700; color: black; padding: 2px;">Yellow</div> <div style="background-color: white; color: black; padding: 2px;">White</div>
2270123 	4 Way	1 2 3 4	<div style="background-color: #8B4513; color: white; padding: 2px;">Brown</div> <div style="background-color: white; color: black; padding: 2px;">White</div> <div style="background-color: #008000; color: white; padding: 2px;">Green</div> <div style="background-color: white; color: black; padding: 2px;">White</div>
2270124 	4 Way	1 2 3 4	<div style="background-color: black; color: white; padding: 2px;">Black</div> <div style="background-color: white; color: black; padding: 2px;">White</div> <div style="background-color: black; color: white; padding: 2px;">Black</div> <div style="background-color: white; color: black; padding: 2px;">White</div>
2270125 	4 Way	1 2 3 4	<div style="background-color: #8B4513; color: white; padding: 2px;">Brown</div> <div style="background-color: white; color: black; padding: 2px;">White</div> <div style="background-color: #8B4513; color: white; padding: 2px;">Brown</div> <div style="background-color: white; color: black; padding: 2px;">White</div>
2270126 	4 Way	1 2 3 4	<div style="background-color: #4169E1; color: white; padding: 2px;">Blue</div> <div style="background-color: white; color: black; padding: 2px;">White</div> <div style="background-color: #4169E1; color: white; padding: 2px;">Blue</div> <div style="background-color: white; color: black; padding: 2px;">White</div>








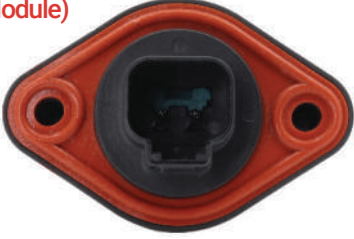

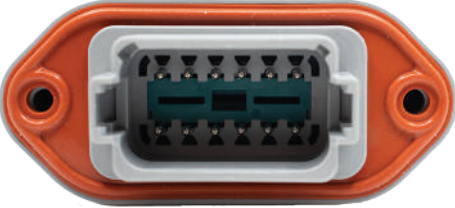
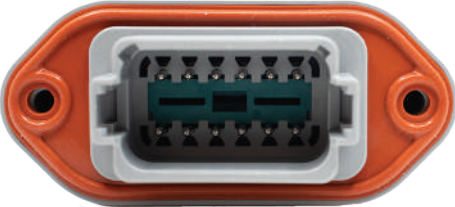
Note: Sub-Assemblies Wiring Functions/Colours are Customizable Upon Request







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

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

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

Part No.	Conector	Position	Wire Colour
2270218 (Plus Loose wire to Join to Power Module) 	2 Way	1 2	Black White
2270219 	8 Way	1 2 3 4 5 6 7 8	Yellow Black White Green Blue Red Brown Orange
2270286 	12 Way	1 2 3 4 5 6 7 8 9 10 11 12	White White White White Black Brown Brown Brown Green Yellow Red Red
2270279 	12 Way	1 2 3 4 5 6 7 8 9 10 11 12	Yellow Black White Green White Red Brown Brown Cavity Plug Cavity Plug Cavity Plug White

Part No.	Conector	Position	Wire Colour
2270310 	12 Way	1 2 3 4 5 6 7 8 9 10 11 12	White Brown Red Yellow Green Blue Black White Brown White Brown White
Cavity Plug - 136901002031 	2 Way		
Cavity Plug - 136901002011 	4 Way		
Cavity Plug - 136901002021 	6 Way		
Cavity Plug - 136901002041 	8 Way		
Blanking Plug - 3970057 	Applicable to All		

Order Form

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)	
	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)	

JBS1
3970058



JBS2
3970059



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

Box Type	Sub-Assembly Part No.	Quantity
	2270218 (2 Way)	
	2270219 (8 Way)	
	2270310(12 Way)	
	2270279 (12 Way)	
	2270286 (12 Way)	
	2 Way Cavity Plug	
	4 Way Cavity Plug	
	6 Way Cavity Plug	
	8 Way Cavity Plug	
	Blanking Plug	

**JBS3
3970087**



For All Enquiries

Name:

Company:

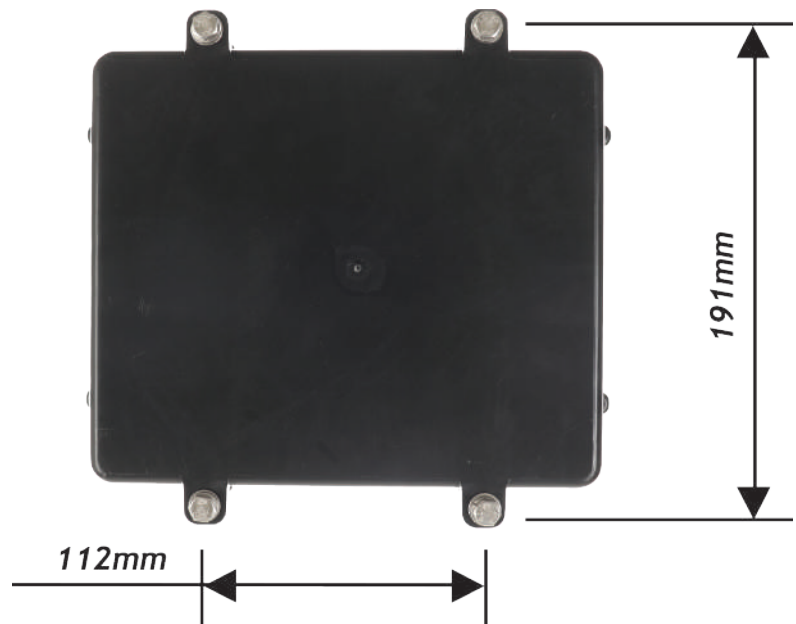
Email:

Note: Please scan complete order forms to sales@lucidity-au.com or head to www.lucidityaustralia.com.au for a digital version.

Technical Drawings



Mounting Holes



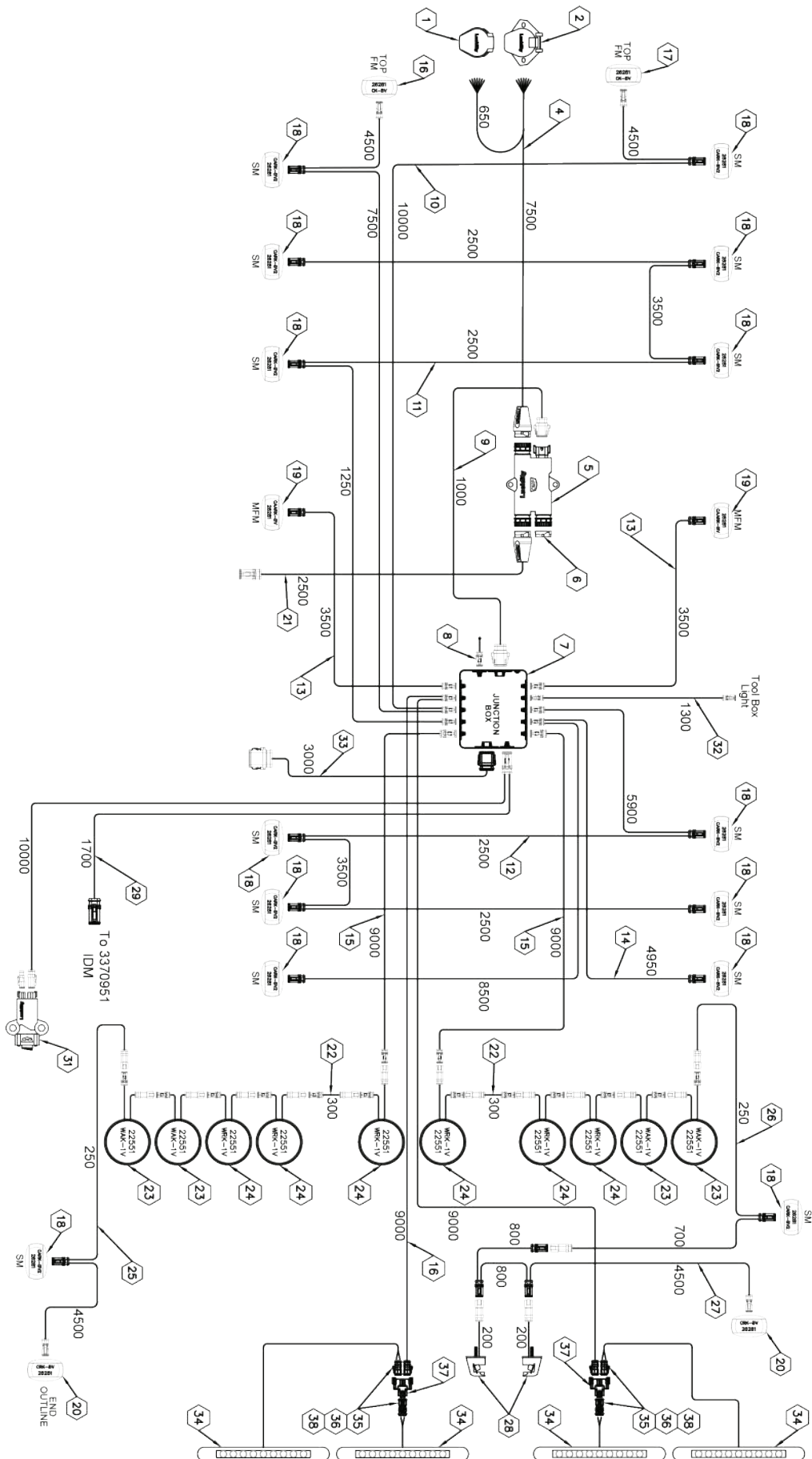
Custom Application



Medium to High Volume Repeated Wire Applications Requiring:

- Integrated Electronics, where Adaptation to an Electronic PCB is More Feasible
- Relays
- Complex Integrated Circuits
- DC Power Regulation Repeated Circuit Distribution
- On Board Diagnostics
- Add Customer Logo

Deck Widener





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