# Starfield Distribution Unit



Model No: TBC

DATASHEET

## Introduction

The Starfield Distribution Unit Receives one universe of DMX/RDM signal as well as a 48VDC power input. It then distributes eight output feeds via standard CAT5e/6 cables. Each of the eight feeds can supply up to 100W.



### Key features

- Simple connectivity using standard RJ45 connectors
- Compact design for discreet installation
- · Auto discovery and addressing of the Starfield Driver
- RDM compatibility
- Device monitoring via RDM
- Output LED fault indicators
- Output overload protection

### **Specifications**

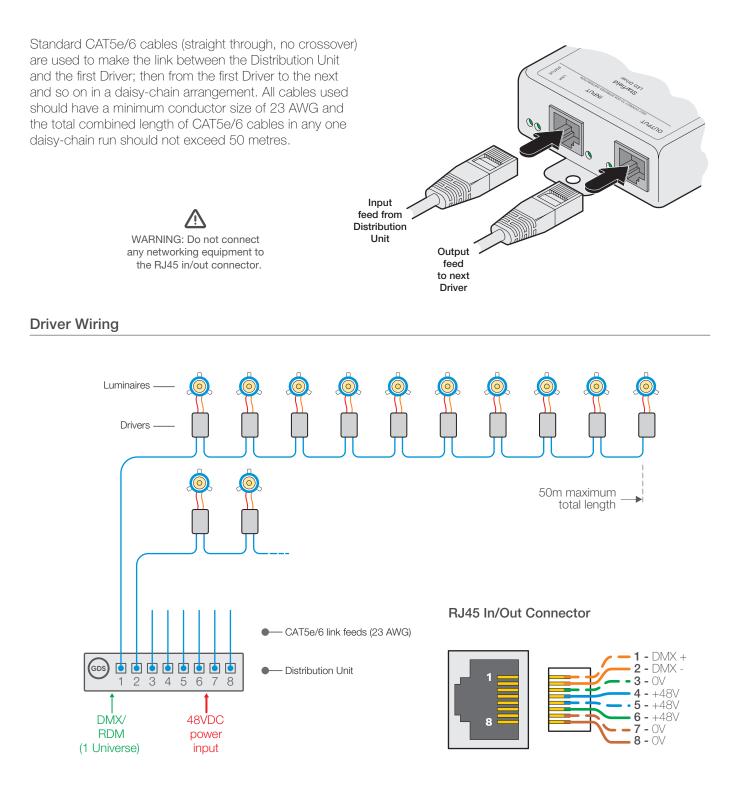
Size	315 x 165 x 37mm
Approximate Weight (g)	TBC
Finish	Black Powder Coat
IP Rating	IP20
Operating Temp (°C)	-20 to +40
Communication Protocol	DMX512 + RDM
Voltage Range	40-60VDC
Max Input Current	20A
Max Output Current (Per Port)	2.35A
DMX Input Connector	RJ45
Power Input Connector	Phoenix Terminal 20A (PC 4/ 2-STF-7.62)
Output Connectors	RJ45

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## **Distribution Unit - Driver Connection**

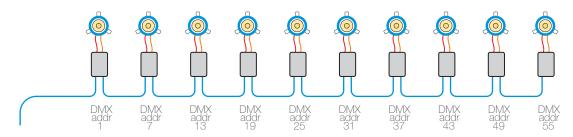
Driver input voltage: Driver maximum power: Driver connector(s): 48VDC (From distribution unit) 32.8W RJ45 (2 off) Molex Micro-Fit (single-row) 2-way Molex Micro-Fit (single-row) 5-way



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## Configuration

To ensure maximum speed and efficiency during installation, the system employs automated addressing and active power management. Once the Driver and Luminaire runs are connected and power is applied, the commissioning engineer will press the DISCOVERY button located on the Distribution Unit circuit board. The Distribution Unit will initiate a search process whereby the Drivers are polled in sequence and given unique addresses:



As each Driver is configured, the Distribution Unit will maintain a tally of power requirements in order to ensure that no daisy-chain can be accidentally overloaded. Once the maximum limit of Drivers have been configured in a line, no attempt will be made to contact or enable further units.

## **RDM Support**

The following RDM fixture parameters are remotely configurable from the controller via the DMX/RDM link:

Dimming curve:	Linear, Square Law, GDS Incandescent
PWM frequency:	300Hz, 600Hz, 1200Hz, 19.2kHz
Response Time (mS):	0, 50, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000
Minimum output level:	0 to 255
Maximum output level:	0 to 255

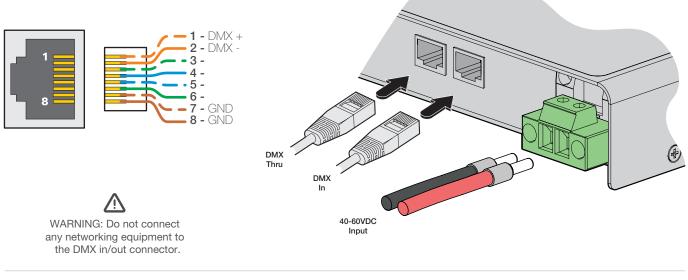
## Power + Data Input Connections

The power input connector (Phoenix PC 4/ 2-STF-7.62) will accept DC power from 40 to 60VDC. The terminals will accept cable cross-sections from 1mm<sup>2</sup> to 4mm<sup>2</sup>.

### The cable specification should allow for the total connected load (Up to 20A).

The DMX in/thru ports will accept an RJ45 connector, terminated to CAT5e/6 cable.

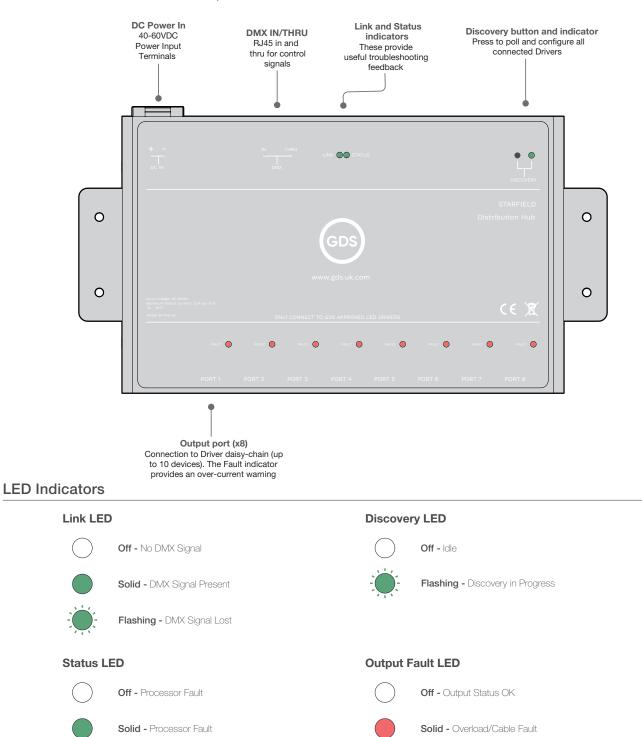
### DMX In/Thru Connector



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## Ports & Indicators

The Distribution Unit has a number of ports and indication LEDs:



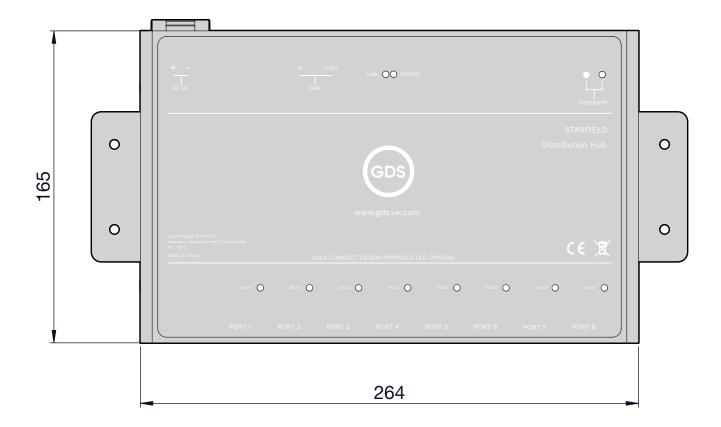
### **Driver Discovery Button**

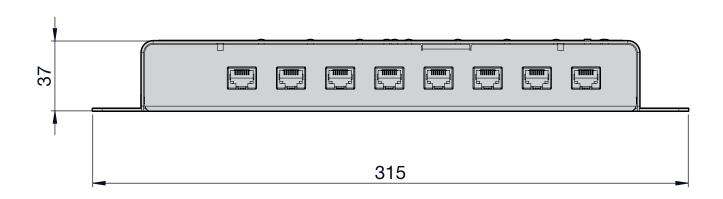
Flashing - Processor Running

Short Press - Port-Based Addressing - Sequential addressing from output port start address Long Press - Route Device Addressing - Sequential addressing from route device start address, accross all ports

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\*Specifications are subject to change without notice.

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