

- ✂ **IECEx certified**
- ✂ **Stainless steel construction**
- ✂ **Powers up to four SS11-6L lights**
- ✂ **Convenient plug and socket terminations**
- ✂ **IP56**

## DESCRIPTION

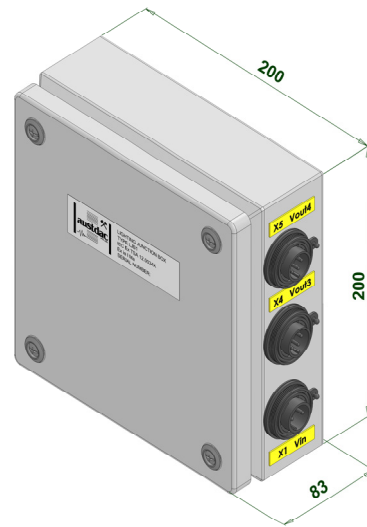
The intrinsically safe junction box type LJB1 is part of the Austdac area lighting system type LLS1 that is designed to provide plant and area illumination in underground coal mines. The LJB1 finds application on longwalls, around load centres and on machinery such as road headers, continuous miners and roof bolters for general area illumination.

The LJB1 junction box provides a convenient method of connecting up to four LED luminaires type SS11-6L to a single power supply such as the Austdac AC36W.

The junction box is provided with one two-pin input connector for connection to the power source and four six-pin connectors for connection to up to four luminaires type SS11-6L. The use of connectors in the LED lighting system allows for convenient fast installation and tear down during longwall moves.

The lighting junction box type LJB1 is certified intrinsically safe as either Ex ib I Mb for power systems that are shut down in mine 'gassed out' situations or Ex ia I Ma for situations where area lighting is required during mine 'gassed out' situations such as self rescuer caches. The perfect power source would then be the Austdac uninterruptible power supply type 12/NMH/288.

The junction box and connectors are ingress protected to IP56 allowing the system to be washed down when required.



## CERTIFICATION

The lighting junction box type LJB1 is IECEx certified for use in group I hazardous areas as part of the LLS1 LED lighting system certification

IECEx TSA 12.0034X Ex ia I Ma or Ex ib I Mb



## SPECIFICATION

GENERAL	
Name	Lighting junction box
Type	LJB1
Mounting	
Size	83mm (H) x 200mm (W) x 200mm (D)
Mass	2kg*
Power input connections	1 x 2 pin connector
Power output connections	4 x 6 pin connectors
Ingress protection	IP56
Enclosure material	Stainless steel
Gasket material	Silicone*

\* To be confirmed

LUMINAIRE (HEAD) OUTPUTS (X2 – X5)	
Number of SS11-6L	4 maximum
Connector type	6 pins
Uo	12.6Vdc
Io	1.49A
Lo/Ro	99uH/Ω

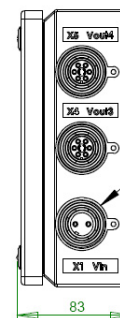
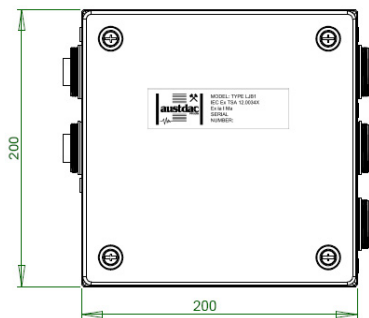
POWER SUPPLY INPUT (X1)	
Ui	12.6Vdc
li	3.3A
Ci	0uF
Li	0uH

## CONNECTION

INPUT CONNECTOR X1	
PIN	FUNCTION
1	+VE
2	-VE

OUTPUT CONNECTORS X2 – X5	
PIN	FUNCTION
1	+VE
2	-VE
3	SCREEN
4	+VE
5	-VE
6	SCREEN

## DIMENSIONS



Protective covers (5) to be fitted when not in use

## ORDERING DETAILS

DESCRIPTION	ORDER CODE
LIGHTING JUNCTION BOX TYPE LJB1	JBOX070



AUSTDAC PTY LTD

HEAD OFFICE: CASTLE HILL AUSTRALIA  
 MACKAY QLD AUSTRALIA BRANCH  
 NORTH AMERICA BRANCH  
 STAFFORDSHIRE UK BRANCH

+61 (0) 2 8851 5000  
 +61 (0) 7 4955 2777  
 +1 888 254 9155 (Toll Free in US and Canada)  
 +44 (0) 1283 500 500

