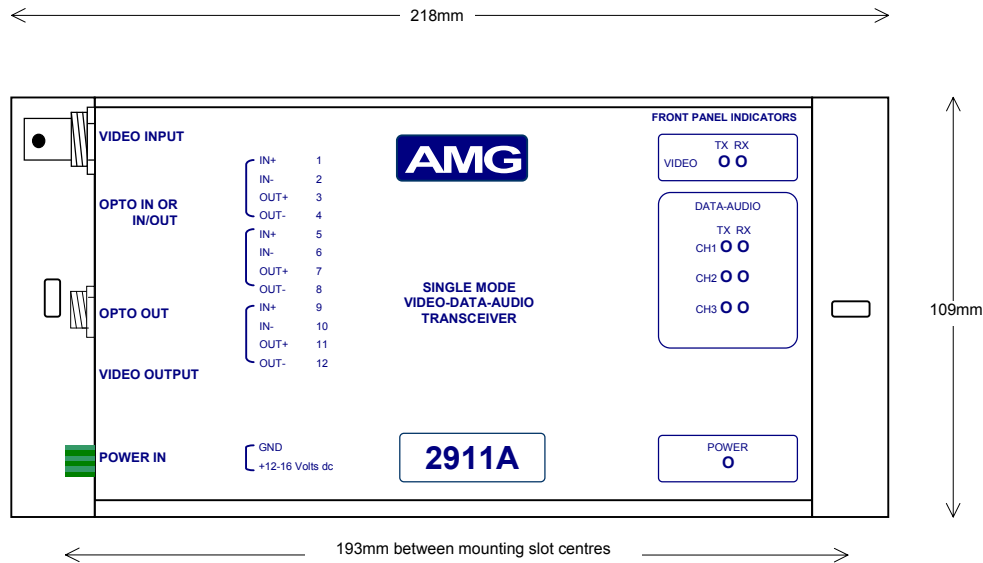




# AMG2911A Instruction Sheet

## AMG2911A Standalone Single Channel Video and Two Contact Closure Fibre Optic Transmitter for use on Singlemode Optical Fibre



The AMG2911A transmits a single video signal over a singlemode optical fibre. It also transmits two contact closure signals over the same fibre. It is designed to operate with an AMG2912A or an AMG2912AR Video Receiver.

### Video Input Connection

Connectors ..... 75 ohm BNC Socket.  
 Input Impedance ..... 75 ohm terminated.  
 Input Level ..... 1 volt p-p nominal (+3dB overload).  
 Frequency Response ..... 10Hz to 5.75MHz min.

### Optical Connection

Connector ..... single FC/PC Style  
 Launch Power ..... -10dBm  
 Wavelength ..... 1550nm nominal.

### Power Connection

Power Supply ..... +12 volts d.c. to +16 volts d.c. at 300mA  
Connector ..... Removable screw terminal connector (3.5mm spacing)  
See equipment label for connection details

### Data Connections

Data Connector..... 12 way removable screw terminal connector (3.5mm spacing)

Channel 2 and 3 are used to transmit contact closure signals

Channel	Pin No.	Pin Description
1	1	N/A
	2	N/A
	3	N/A
	4	N/A
2	5	Contact A In
	6	Contact A In Common
	7	N/A
	8	N/A
3	9	Contact B In
	10	Contact B In Common
	11	N/A
	12	N/A

Contact In relies on a volts free contact closure between Contact In and Contact In Common. Contact In Common is connected to ground. Contact In has a +bias applied by the equipment.

### Dimensions

Height ..... 109mm  
Width ..... 218mm  
Depth ..... 39mm

### Mounting Details

The AMG2911A is designed to mounted onto a panel via the two mounting slots of 4.5mm x 10mm.

## Indicators

Power.....	Green	–	unit powered
	Off	–	no power applied to unit
Video TX.....	Green	–	video signal present in video input BNC
	Off	–	no video present on video input BNC
Video RX.....	Red/Green	–	optical connection to AMG2912A(R) OK
	Off	–	optical loss to AMG2912A(R) too high
Data - Channel 2 and 3			
TX .....	Green	–	logic one present on the corresponding data input
	Red	–	data transitions on the corresponding data input
	Off	–	logic zero present on the corresponding data input
This represents the data signals being transmitted on the optical fibre			
RX .....	Green	–	logic one present on the corresponding data output
	Red	–	data transitions on the corresponding data output
	Off	–	logic zero present on the corresponding data output
This represents the data signals being received on the optical fibre			

## Safety

The 2900A series of products uses a Class 1 laser system in accordance with EN 60825-2:2000.

However it is always advisable to follow good practice when working with optical fibre systems. This includes:

- Do not stare with unprotected eyes or with any unapproved collimating device at fibre ends or connector faces, or point them at other people.
- Use only approved filtered or attenuating viewing aids

For other safety issues and advice on good practice associated with the optical fibres systems see EN 60825-2:2000 or your local safety officer.

There are no user serviceable parts within the AMG2911A.

In case of problem or failure contact your local support centre or AMG Systems Ltd, Technical Support Department on tel. +44 (0) 1767 600777.

See product data sheet for full specification.