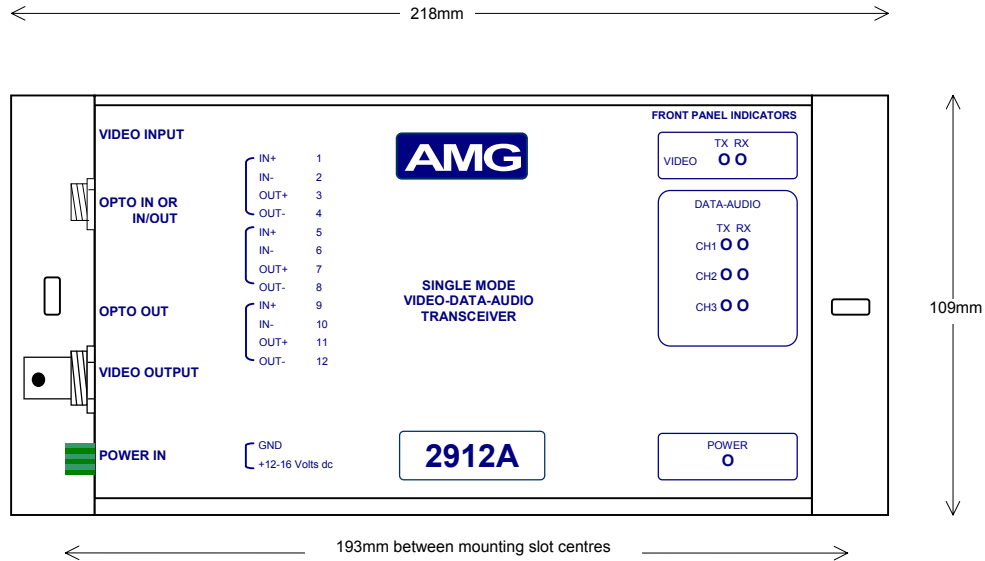




AMG2912A Instruction Sheet

AMG2912A Standalone Single Channel Video and Two Contact Closure Fibre Optic Receiver for use on Singlemode Optical Fibre



The AMG2912A receives a single video signal over a singlemode optical fibre. It also receives two contact closure signals over the same fibre. It is designed to operate with an AMG2911A or an AMG2911AR Video Transmitter.

Video Output Connection

Connectors 75 ohm BNC Socket.
 Output Impedance 75 ohm terminated.
 Output Level..... 1 volt p-p nominal
 Frequency Response..... 10Hz to 5.75MHz min.

Optical Connection

Optical Sensitivity -30dBm
 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

Dimensions

Height 109mm
Width 218mm
Depth 39mm

Mounting Details

The AMG2912A is designed to mounted onto a panel via the two mounting slots of 4.5mm x 10mm.

Data Connections

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

Channel 2 and 3 are used to receive contact closure signals.

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

Contact Out is a volts free isolated relay driven output contacts.

Indicators

Power.....	Green	–	unit powered
	Off	–	no power applied to unit
Video TX.....	Not Used		
Video RX.....	Green	–	video present on output
	Red/Green	–	optical connection to AMG2911A(R) OK no video being received
	Off	–	optical loss to AMG2911A(R) too high
Data Channels 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 AMG2912A.

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 unit data sheet for full specification.