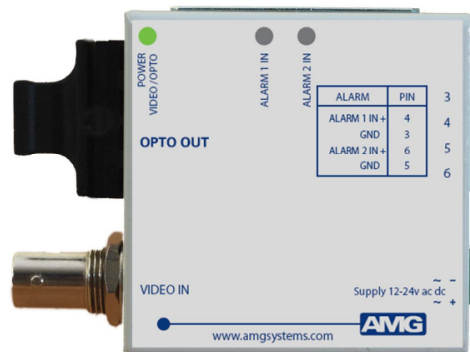


Single Channel Video Transmit Unit with two Uni-directional Alarms for a Multimode Fibre Link



The **AMG5617** is a compact standalone one channel video transmit unit designed to transmit 1 video signal and transmit 2 Uni-directional alarms over one Multimode optical fibre.

The **AMG5617** is designed to be powered using an **AMG2001** standalone power supply.

The **AMG5617** is designed to operate with an **AMG5618 / 5618R** single channel or **AMG5628 / 5628R** dual channel video receive unit in a point to point configuration. The R suffix in the partno. indicates a rackmount configuration.

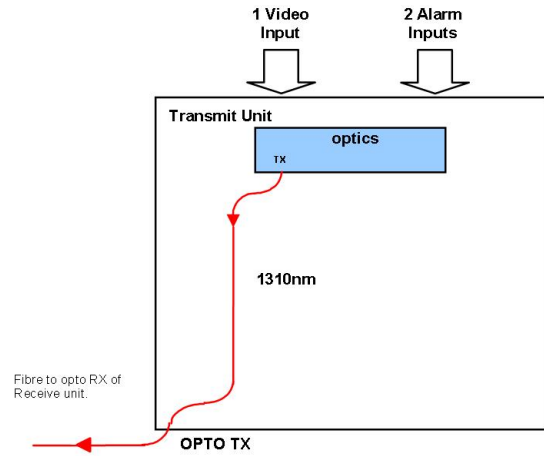
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Introduction

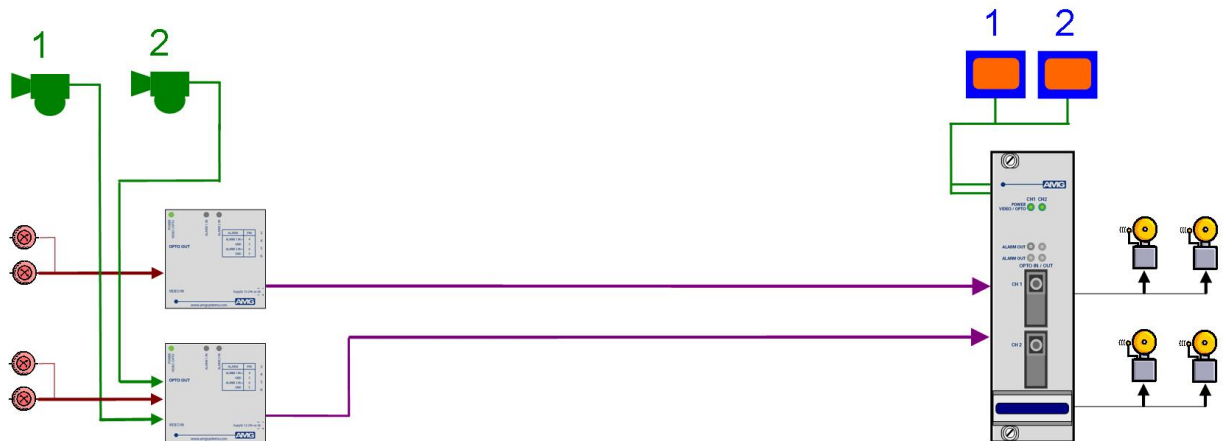
Unit Functional Schematic

The **AMG5617** transmits 1 video plus 2 uni-directional alarm signals to the **AMG5628** receive unit.



Optical Connection

The **AMG5617** connections are illustrated in the following example which shows two transmit units together with an **AMG5712R** two channel rackmount receive unit configured as a dual channel point to point system.



Connections

Video Input Connections

No. of channels 1
Connector 75 ohm BNC Socket.
Input Impedance 75 ohm terminated.
Input Level 1 volt p-p nominal
Frequency Response..... 10Hz to 7MHz.

Optical Connections

No. of Optical Connections 1 per video channel
Minimum Optical Fibre Multimode 50/125 or 62.5/125**
Connector Type SC/PC

Minimum Optical Launch Power -10dBm
Transmit Wavelength 1310nm

Optical Link Dynamic Range 20dB.

**Note: the transmission distance is limited by the bandwidth of the Multimode optical fibre. The optical data rate is 155Mbits/s, which may restrict operation to a maximum fibre length of 7km, although in most cases the units will operate successfully over longer fibre lengths. It is advisable however for distances greater than 7km, to have the optical fibre tested.

Power Connection

Connector Type Removable 2-pin, 3.81mm, Screw Terminal
Connector Partno..... Phoenix 1803578
Supply Voltage..... +12 to +15Vdc
Maximum Power 1.5 Watts

Alarm Channel Connections

No. of Alarm Channels..... 2
Connector Removable 8-pin, 3.81mm, Screw Terminal
Connector Partno..... Phoenix 1803633
Alarm input..... Contact Closure pull-up is 330R to +3V3

Alarm Channel Configuration

Alarm Channel Configuration

The **AMG5617** provides 2 uni-directional alarm / contact closure inputs. Each alarm input is typically connected to a contact closure switch.

Each ALARM IN+ input incorporates a 330R pull-up resistor to the internal +3V3 supply.

Uni-directional Alarm Interface Connections

Connector Pin No.	Alarm Interface	
	Alarm 1	Alarm 2
1		
2		
3	GND	
4	ALARM 1 IN +	
5		GND
6		ALARM 2 IN +
7		
8		

Front Panel Indicators

Power LED Video & Data

Power / Video / Opto.....	Green	-	Video input & Opto sync.
	R/G	-	Opto sync. but no Video input.
	G/R	-	Video input but no Opto sync.
	Red	-	Unit powered, no Video or Opto sync.
	Off	-	No power applied to unit

Alarm LEDs

ALARM 1 IN.....	Green	-	Alarm ON / Contacts closed.
	Off	-	Alarm OFF / Contacts open.
ALARM 2 IN.....	Green	-	Alarm ON / Contacts closed.
	Off	-	Alarm OFF / Contacts open.

Physical Information

Dimensions

Height 56mm
Width 55mm (excluding connectors)
Depth 25mm
Weight 200grams

Mounting Details

The unit is designed to be mounted using the clip holder supplied, which can be fixed to a wall or panel using 2 off 4mm screws.

Safety

AMG Optical Fibre Products use Class 1 laser systems in accordance with EN 60825-2:2000.

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 optical fibre systems, please see EN 60825-2:2000 or your local safety officer.

Maintenance and Repair

There are no user serviceable parts within AMG products. See unit data sheet for full specification.

In case of problem or failure, please call your local support centre or contact: **AMG Systems Ltd.** at 3 The Omega Centre, Stratton Business Park, Biggleswade, Beds., SG18 8QB, UK.

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