

## VM1 – VIDEO



The OPTRAL Series VM1 allows the transmission of one standard video signal over multimode optical fibre. One transmitter and one receiver using one single fibre form the basic system. The receivers in modular and rack format are available with Automatic Gain Control (AGC) and do not require any kind of adjustments (Models VM107).

All the models comply with the requirements according to the Electromagnetic Compatibility and Low Tension Standards (CE Marking).

### **FEATURES**

- Multimode optical fibre
- Wavelength 850nm and 1300 nm
- Modular Units: Type S, Type M, Mini, Micro and rack cards
- Configurable for short and long distances
- Optical connectors: ST <sup>(1)</sup>
- <sup>(1)</sup> For other optical connectors, consult us.

### **POWER/TEMPERATURE/SIZE**

- Temperature = 0° ÷ +50°C
- Humidity = 10% ÷ 90%
- 12 Vdc / 250 mA
- Modular Units:
  - Type S = 105 x 95 x 32 mm
  - Type M = 179 x 127 x 32 mm
  - Type Mini = 67 x 47 x 25 mm
  - Type Micro = 61 x 25 x 23 mm

### **VIDEO SIGNAL**

- I/O Impedance = 75 Ω
- Bandwidth = 10 MHz
- Differential Gain < 2%
- Differential Phase < 2°
- I/O Video connector = BNC
- AGC Included in the receivers (Models: VM107)

### **ACCESORIES (NOT INCLUDED)**

- Modular Units (Power Supplies)
  - Type S, M, Mini and Micro = PS150
- Rack Cards
  - Card Cage 3U (Rack 19") = PR100

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### AVAILABLE MODELS

REFERENCE	DESCRIPTION	FORMAT	NUMBER FIBRES	MAXIMUM ATTENUATION <sup>(2)</sup>	WAVE-LENGTH
VM101-TB1	1 Tx Video Modular	Type S	1	14 dB	850 nm
VM101-TR1	2 Tx Video Rack	Rack	2		
VM102-TB1	2 Tx Video Modular	Type M	2		
VM101-RB1	1 Rx Video Modular	Type S	1		
VM101-RR1	2 Rx Video Rack	Rack	2		
VM107-RB1	1 Rx Video Modular (with AGC)	Type S	1		
VM107-RR1	2 Rx Video Modular (with AGC)	Rack	2		
VM101-TB2	1 Tx Video Modular	Type S	1	14 dB	1300 nm
VM101-TR2	2 Tx Video Rack	Rack	2		
VM102-TB1	2 Tx Video Modular	Type M	2		
VM101-RB2	1 Rx Video Modular	Type S	1		
VM101-RR2	2 Rx Video Rack	Rack	2		
VM107-RB2	1 Rx Video Modular (with AGC)	Type S	1		
VM107-RR2	2 Rx Video Modular (with AGC)	Rack	2		
VM104-TB1 <sup>(3)</sup>	1 Tx Video Mini	Mini	1	12 dB	850 nm
VM104-TB2 <sup>(3)</sup>	1 Tx Video Mini	Mini			1300 nm
VM105-TB1 <sup>(3)</sup>	1 Tx Video Micro	Micro	1		850 nm
VM105-TB2 <sup>(3)</sup>	1 Tx Video Micro	Micro			1300 nm

<sup>(2)</sup> Maximum attenuation at 62.5/125. For 50/125 reduce optical budget by 3dB.

<sup>(3)</sup> The Mini and Micro transceivers are only compatible with receivers with AGC included (Models VM107).

**Type S** = 105 x 95 x 32 mm / **Type M** = 179 x 127 x 32 mm / **Type Mini** = 67 x 47 x 25 mm / **Type Micro** = 61 x 25 x 23 mm

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