

# **FDVA1-IA1 Series**

One Channel Video with 1 Simplex Contact Closure, Point-to-Point Transmission





### **Product Description**

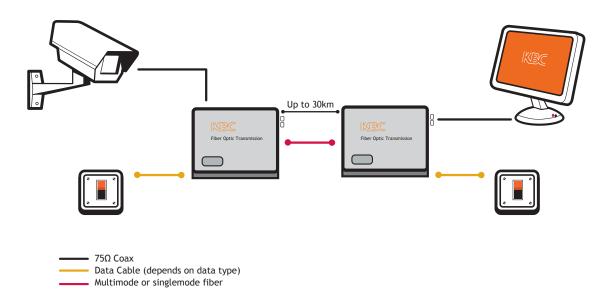
The KBC FDVA-IA1 series uses the most advanced digital technologies to provide excellent, repeatable performance for today's CCTV systems. It supports transmission of one analog composite video channel and one simplex (same direction as video signal) contact closure signal over one multimode or singlemode optical fiber. PAL, NTSC and SECAM video standards are fully supported. The plug-and-play design ensures ease of installation with no electrical or optical adjustment needed. LED indicators are provided to clearly show the operational status of the unit. The series is available in compact or 3U chassis card.

#### **Product Features**

- 8 or 10 bit digitally-encoded, non-compressed video transmission
- Unique dual-channel chassis card
- Up to 28 channels in one 3U chassis
- LED indicators provide quick diagnosis of all important system parameters
- Multimode and singlemode models
- Compact and 3U chassis card configurations
- Fully independent contact closure circuit in same direction as video



# **Typical System Configuration**



#### **Specifications**

No. of Channels Format Input/Output Bandwidth Digital Encoding (non compressed) Differential Gain (10-90% APL) Differential Phase (10-90% APL) SNR

**Contact Closure** 

No of simplex channels Response Time Input Output Switch Rating

Optical

Wavelength Fiber

Number of Fibers

PAL / NTSC / SECAM 1.0V pk-pk typical,  $75\Omega$ 5~Hz ~ 6.5~MHz8 bit 10 bit <2.0% <2.0% <2.0° <1.0° >60dB >67dB

500µs Dry Contact Closure, TTL SPST Relay, Normally Open 1A @ 30 Vdc 0.5A @ 125 Vac max

1310nm

Multimode or Singlemode

Power

Power Input 12-24 Vac/dc @ 150mA Compact Power Supply<sup>(1)</sup> Input: 100 ~ 240 Vac Output: +12 Vdc UL and cUL listed PSU Chassis Card Supplied from FR3 PSU

Environmental

-40°~+70°C / -40°~+158°F Operating Temperature -40°~+70°C / -40°~+158°F Storage Temperature Operating Humidity 0 to 95% non-condensing Mean Time Between Failure (MTBF) >100,000 Hours

Mechanical

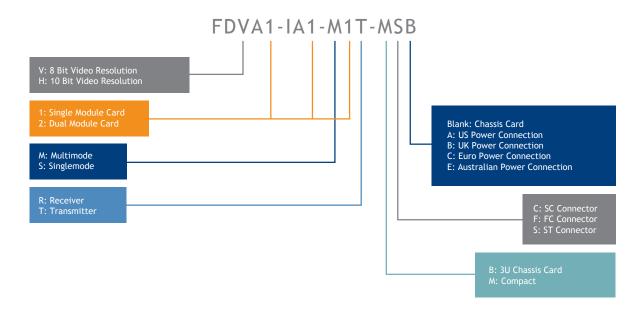
Dimensions (Compact L x W x H) $^{(5)}$ 70mm x 58mm x 28mm (2.8" x 2.3" x 1.1") Number of 3U Chassis Card Slot(2)

Connectors

Video BNC  $75\Omega$ Fiber ST, SC or FC

(ST fitted as standard) Screw Block Terminal Power<sup>(3)</sup> Compact Contact Closure Screw Block Terminal

### **Part Number Configurator**



## **Optical Budget**

Part Code	Fiber Type	No.	Optical Budget			Wavelength	Approximate
			50µm	62.5µm	9µm	nm	Transmission Distance <sup>(4)</sup>
FDVA1-IA1-M1*	Multimode	1	8dB	12dB		1310	0~4km
FDVA1-S*	Singlemode	1			15dB	1310	0~30km

nission distances up to 120km are available please contact KBC Networks for details. All KBC Networks optical transmitters are LASER based.

- 1. Please select the power plug from US Standard, Euro 2 Circular or UK 3 Pin square when placing order.
- Supports maximum of up to 14 single slot cards in each 3U Chassis.
  Power lines are crimped and fitted to screw block connector in factory.
- 4. Transmission distance is limited by optical loss of the fiber and loss introduced by connectors, splices and patch panels. Fiber bandwidth also limits the transmission distance
- 5. Product body dimensions. Please contact KBC Networks for product drawing and dimensions of mount

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