

FCVA1 Series

One Channel Video with 'Up the Coax' Telemetry and 2 Duplex Contact Closures, Point-to-Point Transmission







Product Description

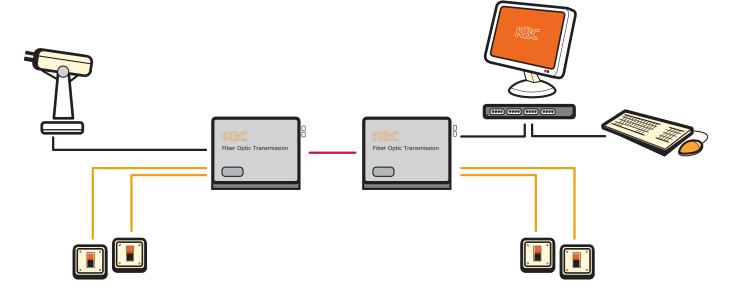
The KBC FCVA1 series uses the most advanced digital technologies to provide excellent repeatable performance for today's CCTV systems. It supports transmission of one video channel, one 'Up the Coax' data channel and two duplex contact closure channels over one multimode or singlemode optical fiber. 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 display the operational status of the unit. The series is available in wall mount and 3U chassis card.



- 10 bit digitally encoded non-compressed video transmission
- Dual module 3U chassis card
- Compatible with all major 'Up the Coax' manufacturers equipment
- 2 full duplex contact closure channels



Typical System Configuration



Specifications

Video

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

Data⁽¹⁾

Data Formats One way Channels

Two Way Channels

Contact Closure

No. of duplex Channels Response Time Output Switch Rating

Optical

Wavelength Fiher Number of Fibers PAL / NTSC / SECAM 1.0V pk - pk typical, 75Ω 5 Hz ~ 6.5 MHz 10 bit <2.0% <2.0° >60dB

Up the Coax

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

1310nm / 1550nm Multimode or Singlemode **Power**

Power Input Wall mount Power Supply for Wall mount⁽²⁾

Chassis Card

Input: 100 ~ 240 Vac; Output: +12 Vdc UL and cUL listed PSU Supplied from FR3 PSU

+12 Vdc @ 400 mA

Environmental

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

Mechanical

Dimensions (Wall Mount, L x W x H) Number of 3U Chassis Card Slot⁽³⁾ 135mm x 116mm x 36mm

Connectors

Video Contact Closure Fiber

Power⁽⁴⁾ Wall Mount

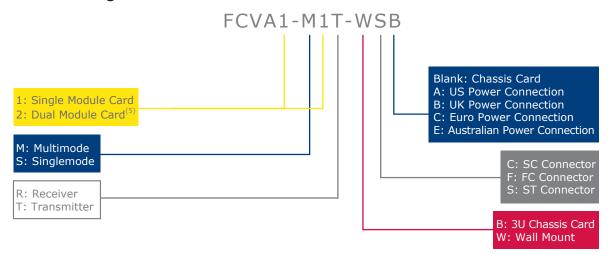
Screwblock Terminal ST, SC or FC

(ST fitted as standard) Screw Block Terminal

DIP Switch Settings

On / Off **BBV** Telemetry

Part Number Configurator



Optical Budget

Part Code	Fiber Type	No.		Budget 62.5µm	9µm	Wavelength nm	Approximate Transmission Distance ⁽⁶⁾
FCVA1-M*	Multimode	1	8dB	12dB		1310/1550	0~4km
FCVA1-S*	Singlemode	1			15dB	1310/1550	0~30km

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

- 1. FCVA1 unit supports systems such as Pelco Coaxitron™, Bosch Bilinx™, Panasonic Proteus™, BBV and other leading manufacturers.
- 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.

- 4. Power lines are crimped and fitted to screw block connector in factory.5. The dual module 3U card is available in receiver format only and does not provide the contact closure circuits
- 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.

Due to ongoing technological improvements, product specifications are subject to change without notice.







