



Product Description

The KBC FPI series is part of the ASFOM product family and provides unique, user-configurable solutions for contact closure signals. It supports transmission of up to 256 simplex or duplex contact closure signals over either one or two multimode or singlemode optical fibers. Due to the ASFOM flexibility, duplex solutions can either be symmetrical or asymmetrical with respect to the signal quantities.

The plug-and-play design ensures ease of installation with no electrical or optical adjustment needed. LED indicators are provided to show the operational status of the unit clearly.

Depending on system requirements, units are available in wall-mount, 1U or 2U 19" rack or 4U chassis card.



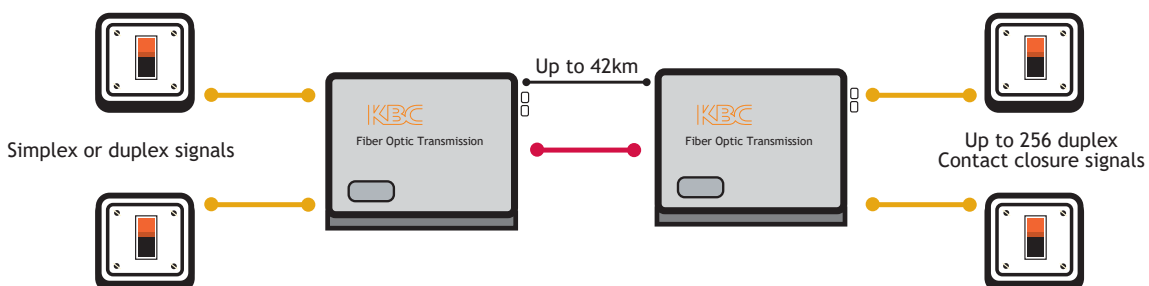
Product Features

- Up to 256 full-duplex contact closure signals
- Simplex and duplex solutions
- No fixed configuration
- All screw block terminal connectors
- Multimode and singlemode
- Wall-mount, rack or chassis configurations
- Unique **Configurator** software package

Specifying your ASFOM Product

The easiest way to specify your ASFOM products is via our Configurator software which is available on-line at www.kbcnetworks.com. Using the Configurator, simply enter the number of channels for each signal type you require, and it will work out the product and the part number for you. Alternatively, please contact your local agent or KBC direct, who will configure your product.

Typical System Configuration



Specifications

Contact Closure

Response Time	500µs
Input	Dry Contact Closure, TTL
Output	SPST Relay, Normally Open
Switch Rating	0.8A @ 25Vdc 0.4A @ 110Vac max

Optical

Wavelength	Single & WDM	1310nm, 1550nm
Fiber		Multimode, Singlemode
Number of Fibers		1 or 2

Power

Power Input Wall-mount	+12-24 Vac/dc
Power Supply for Wall-mount(1)	Input: 100 - 240 Vac Output: +12 Vdc
Rack Module(1)	Input: 100 - 240 Vac @ 2A
Chassis Card	Supplied from FR3 or FR4 PSU

Environmental

Operating Temperature	-40° ~ +74° C / -40° ~ +165° F
Storage Temperature -	40° ~ +74° C / -40° ~ +165° F
Operating Humidity	0 to 95% non-condensing
Mean Time Between Failure (MTBF)	>100,000 Hours

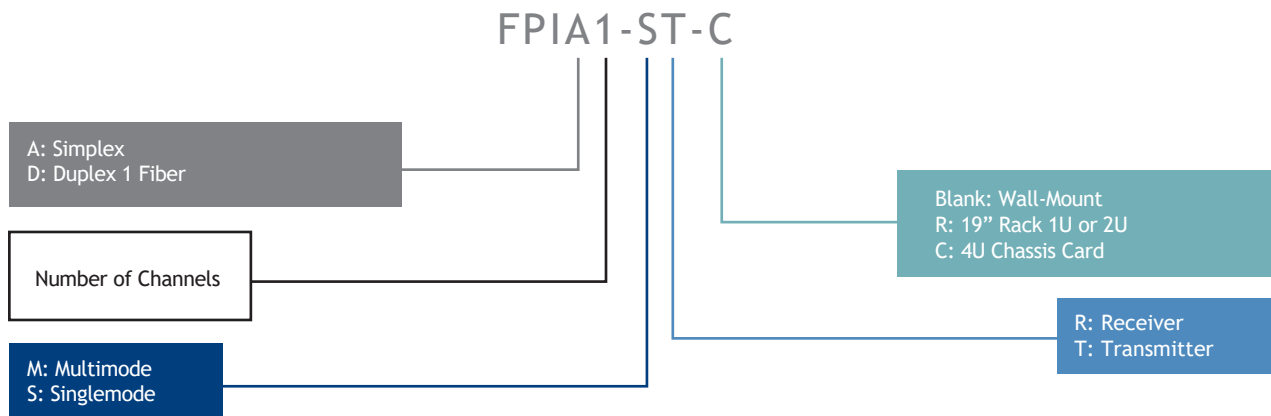
Mechanical

Dimensions		
Compact wall-mount (L x W x H)(5)		135mm x 116mm x 36mm (5.31" x 4.57" x 1.42")
Wall-mount (L x W x H)		221mm x 155mm x 36mm (8.7" x 6.1" x 1.42")
Rack	1U 2U	19" 1U 19" 2U
Number of 4U Chassis Card Slots(2)		Depends on product configuration

Connectors

Contact Closure		8-way screw block terminal
Fiber		ST, SC or FC (ST fitted as standard)
Power(3)	Wall-mount Rack	Screw block terminal IEC

Part Number Configurator



Optical Budget

Part Code	Fiber Type	No.	Optical Budget			Wavelength nm	Approximate Transmission Distance(4)
			50µm	62.5µm	9µm		
FPIA*-M*	Multimode	1	8dB	12dB		1310	0-4km
FPID*-M*	Multimode	1	8dB	12dB		1310/1550	0-4km
FPIA*-S*	Singlemode	1			18dB	1310	0-30km
FPID*-S*	Singlemode	1			18dB	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. Please select the power plug from US Standard, Euro 2 Circular or UK 3 Pin square when placing order.
2. Supports maximum of up to 14 single slot cards in each chassis.
3. 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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