



Market Central[®]
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Data DeadBolt[®]
Key-switched
Fiber Optic A/B Switch
with Tamper-proof Enclosure

Part Number 5100599



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1. Specifications

Interface	62.5 um multimode fiber
Connectors	(3) Duplex SC fiber optic jacks (1) 3.5mm jack
Power	5VDC from included wall-mount AC power supply
MTBF	>100,000 hours
Altitude Tolerance	Any
Temperature Tolerance	Operating: 32° to 158° F (0° to 70° C); Storage: -4° to 212° F (-20° to 100° C)
Humidity Tolerance	Up to 95% non-condensing
Dimensions	7.25" H x 5.5" W x 1.5" D
Weight	4 pounds

2. Introduction

The Key-switched Fiber Optic A/B Switch is enclosed in a tamper-proof enclosure. Power and fiber optic connections are contained within the plastic housing that is closed with tamper-proof screws. A barrel key is employed to control switching of a common, full duplex fiber optic port to one of two other ports. The switch defaults to the 'A' port when the key is removed and when power is removed or lost. The key cannot be removed when it is in the 'ON' position. The ON position connects the common port to the 'B' port. The connection of the common port to the 'A' port is used for the OFF position. This switch is based on the standard 5100610R Data DeadBolt to which additional physical security features have been added.

3. Installation

Note that the base of the enclosure has two keyhole slots that are provided for attachment of the base to a wall. The two slotted holes are sized for a #6 screw.

1. Mark the locations of the two mounting holes on the wall to which the switch is to be mounted and drill holes, adding appropriate hardware to retain the screws. Attach the base of the enclosure to the wall with two #6 screws.
2. Connect the two SC connectors that are to be coupled through the switch when the key is moved to the 'ON' position to the 'COMMON' and 'B' fiber optic SC connectors. Leave the 'A' port unconnected, or connect a SC connector to it that will be connected through the switch to the COMMON port when the key is removed (or when power is lost).
3. Connect the included power supply module to a stable source of 120 VAC / 60 Hz power. Connect the output plug of the power supply module to the 3.5mm power jack located between the COMMON and B ports.
4. Insert the end panels into the cover of the enclosure that holds all of the connections, routing the power supply module's output cable and all fiber optic cables through the slots in the bottom end panel provided for this purpose. Attach this assembly to the base that was previously secured to the wall, using the tamper-proof screws included for this purpose. This completes the installation of the switch.

4. Troubleshooting

If you determine that your Data DeadBolt Key-switch Fiber Optic A/B switch is not operating properly, check your fiber optic cables to be sure that they have not been accidentally damaged or kinked. When you have verified the integrity of the fiber optic cables, check the power supply module to be sure that it has not been disconnected from the AC power outlet.

If no problems are found with the fiber optic cables and power connections, contact Market Central by calling 412.494.2800 and request a RMA number to return the unit for repair/replacement. Carefully package the switch cover assembly and return it, freight pre-paid to Market Central at:

Market Central, Inc.
Attention RMA # _____
500 Business Center Drive
Pittsburgh, PA 15205-1333

The switch assembly will be tested for proper operation. Any repairs required within the warranty period will be made at no charge and the switch will be returned to you freight pre-paid. Please include your contact information. When your switch has passed the warranty period, you will be contacted with a price quotation to repair your switch. Please note that physical damage can be sufficiently severe as to prevent repair of the switch. Authorization for repair will be needed before an out-of-warranty switch can be repaired. Returned products will be attended to as quickly as possible.

MARKET CENTRAL, INC.

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