

Control Issues with Fiber Optic Modules September 19, 2008

<p>Issue Severity:</p> <p><input type="checkbox"/> High: Act immediately</p> <p><input checked="" type="checkbox"/> Medium: Bosch Security Systems strongly recommends you take the action(s) described below.</p> <p><input type="checkbox"/> Low: Advisory</p>	<p>Products Affected:</p> <ul style="list-style-type: none"> • VG4 AutoDomes with Fiber Optic Modules
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1.0 Issue

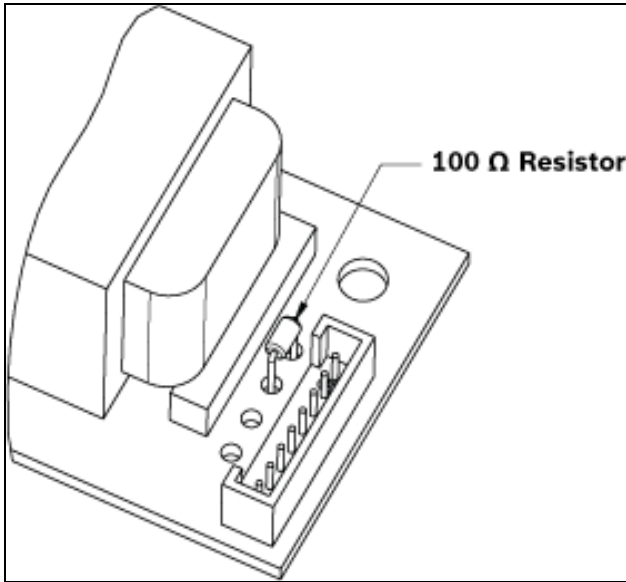
A VG4 AutoDome with a Fiber Optic module may display good video quality, but an operator may encounter intermittent or no control of the AutoDome.

This control issue may occur where the combination of control components, lengths of fiber, and signal strength provide a poor Biphase signal to the dome. Adding a termination resistor to the fiber optic board cleans up the Biphase signal to the dome.

Compare the Date Code (D/C) on the label inside the AutoDome power supply box and the following table to determine if the fiber optic board was shipped with the resistor:

Date Code (D/C)	Description	Action
890	100 Ω resistor installed on fiber optic board by factory.	No action necessary. If you experience AutoDome control issues, contact Bosch Technical Support.
889 Shipped <i>after</i> 16-SEP-08	100 Ω resistor installed on fiber optic board by factory.	No action necessary. If you experience AutoDome control issues, contact Bosch Technical Support.
889 Shipped <i>before</i> 16-SEP-08	Fiber optic board shipped without the 100 Ω	See Section 2, <i>Resolution</i> , for instructions.

Next, compare the fiber optic board in the AutoDome power supply box with the illustration below to determine if there is a termination resistor on the fiber optic board.

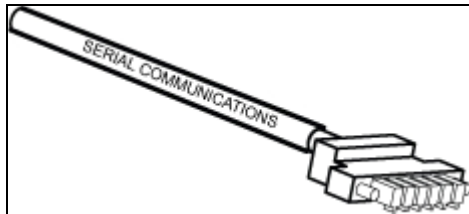


If the resistor is missing, refer to the next section. If the resistor is present there is no need to add another resistor inside the AutoDome power supply box. If the fiber optic board contains the resistor and you are experiencing control issues, contact Bosch Security Systems Technical Support.

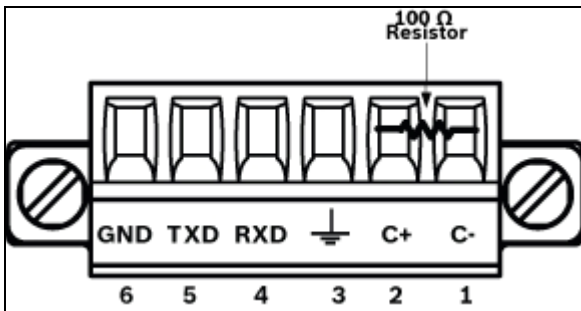
2.0 Resolution

To resolve this issue, you must apply a resistor across two connectors inside the VG4 AutoDome power supply box. The power supply box originally shipped with a 6-pin connector, including the resistor, attached to the P106 connector. If you do not have the connector with the resistor, contact Customer Support to obtain the VG4 Standard Connector Kit for Power Supply (part number: F01U080338).

1. Turn off power to the VG4 AutoDome power supply box.
2. Open the power supply box.
3. Unplug the green Serial Communication cable from the P106 connector.



4. Perform one of the following procedures to expose the wires from the Serial Communication cable:
 - a. Cut the wires:
 - Cut the wires from the connector on the Serial Communication cable. Be sure to cut the wires to leave enough slack to reach the P106 connector inside the power supply box.
 - Strip all six wires from the Serial Connection cable.
 - b. Remove the wires:
 - Locate the side of the green connector with the numbers.
 - Using a small screwdriver, press against the exposed metal for each pin location.
 - Remove the wire from each pin location.
 - Remove the metal tang from the end of each wire by moving the metal back and forth until it breaks.
5. Connect the wires from the Serial Communication cable to the 6-pin connector (illustrated below) that shipped with the power supply box. The resistor leads and the wire share the C- and the C+ (pin positions 1 and 2)

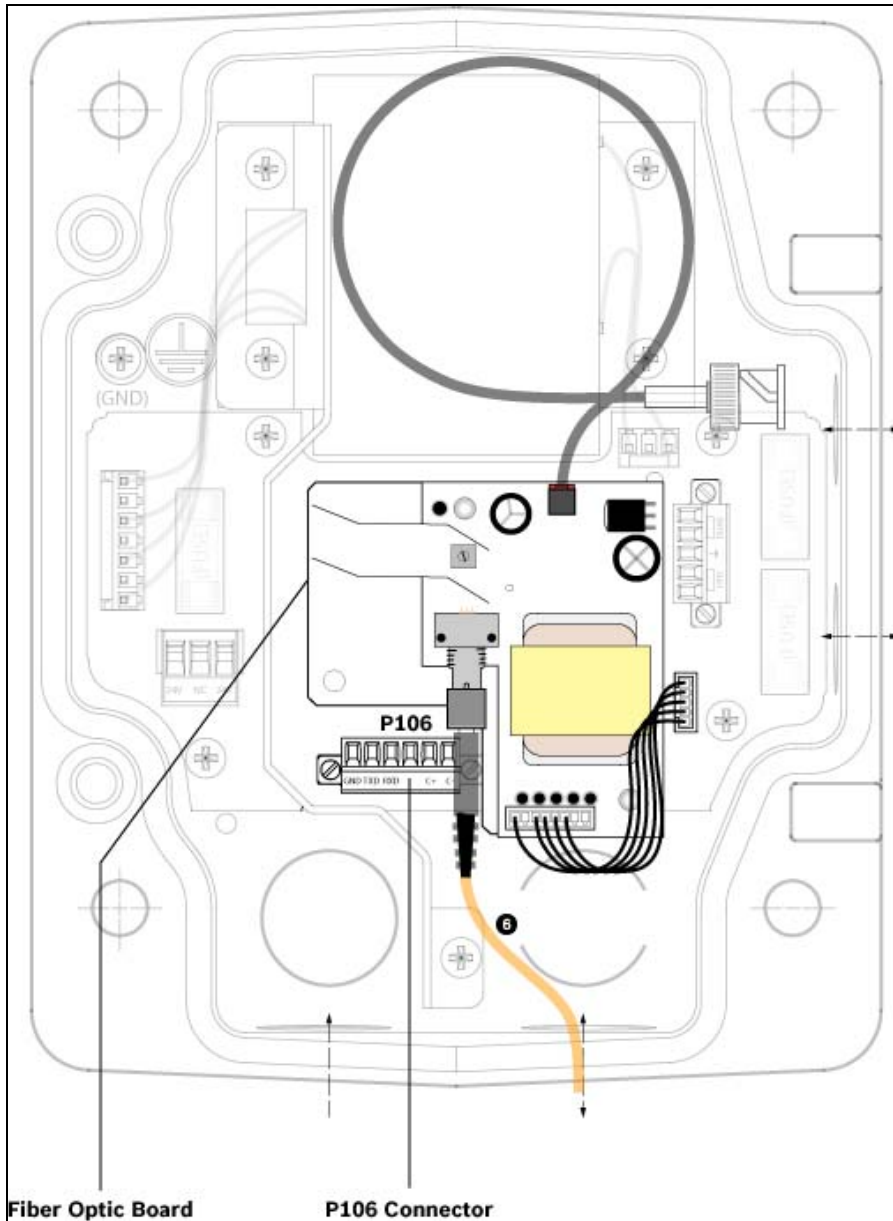


NOTE: DO NOT remove the resistor from pins 1 and 2. This resistor must stay connected across pins 1 and 2. If the connector does not have a resistor across the C- and C+ (pin positions 1 and 2), then place a 100–120 Ω across these positions.

Use the following table to attach the wires to the 6-pin connector:

Wire Color	Pin	Description
White	1	C+ (with resistor lead)
Brown	2	C- (with resistor lead)
Orange	3	Earth Ground
Green	4	RxD
Yellow	5	TxD
Blue	6	RS232 Ground

6. Connect the 6-pin plug to the P106 connector inside the VG4 AutoDome power supply box.



7. Close power supply box and restore the power.