



INPUT CIRCUIT TYPES

OVERVIEW

Systems using WinDSX support two, three, and four state supervised input monitoring.
 The Five programmable circuit types are shown below.
 Applies to all Controllers except the DSX-1043

- Input Circuit Type 0 = 2 states Uses 1K-ohm resistor.
- Input Circuit Type 1 = 3 states Uses 1K-ohm resistor.
- Input Circuit Type 2 = 3 states Uses 1K-ohm resistor.
- Input Circuit Type 3 = 4 states Uses 180-ohm and 820-ohm resistor. Supports trouble conditions.
- Input Circuit Type 4 = 4 states Uses 180-ohm and 820-ohm resistor. Supports trouble conditions.

Inputs that are armed will report an alarm if they go into trouble.

Input Circuit Type 0

Reports 2 states of the circuit. If the circuit changes by 100 Ohms an alarm is sent to the PC .

- 1) This circuit is normal at 1000 Ohms.
- 2) This circuit alarms at + or - @ 100 Ohms.

Common

Normally Open & or Normally Closed Sensors
 Circuit Normal at 1000 Ohms = State 1
 Sensor (NO) Closes = Alarm = State 2
 Sensor (NC) Opens = Alarm = State 2

State 1 = 1000 Ohms = Normal
 State 2 = More than 1100 Ohms = Alarm
 State 2 = Less than 900 Ohms = Alarm

Input Circuit Type 1

Reports 3 states of the circuit.

- 1) This circuit is normal at 1000 Ohms.
- 2) This circuit will show trouble if the circuit shorts .
- 3) This circuit alarms if the (NC) sensor opens .

Common

Normally Closed Sensors
 Circuit Normal at 1000 Ohms = State 1
 Circuit Shorts = Trouble = State 2
 Sensor (NC) Opens = Alarm = State 3

State 1 = 1000 Ohms = Normal
 State 2 = Short = Trouble
 State 3 = Open = Alarm

Input Circuit Type 2

Reports 3 states of the circuit.

- 1) This circuit is normal at 1000 Ohms.
- 2) This circuit will show trouble if the circuit opens .
- 3) This circuit alarms if the (NO) sensor closes .

Common

Normally Open Sensors
 Circuit Normal at 1000 Ohms = State 1
 Circuit Opens = Trouble = State 2
 Sensor (NO) Closes = Alarm = State 3

State 1 = 1000 Ohms = Normal
 State 2 = Open = Trouble
 State 3 = Short = Alarm

Input Circuit Type 3

Reports 4 states of the circuit.

- 1) This circuit is normal at 820 Ohms.
- 2) This circuit will show trouble if the circuit shorts .
- 3) This circuit will show trouble if the circuit opens .
- 4) This circuit alarms if the (NC) sensor opens .

Common

Normally Closed Sensors
 Circuit Normal at 820 Ohms = State 1
 Circuit Shorts = Trouble = State 2
 Circuit Opens = Trouble = State 3
 Sensor (NC) Opens = Alarm = State 4

State 1 = 820 Ohms = Normal
 State 2 = Short = Trouble
 State 3 = Open = Trouble
 State 4 = 1000 Ohms = Alarm

Input Circuit Type 4

Reports 4 states of the circuit.

- 1) This circuit is normal at 1000 Ohms.
- 2) This circuit will show trouble if the circuit shorts .
- 3) This circuit will show trouble if the circuit opens .
- 4) This circuit alarms if the (NO) sensor closes .

Common

Normally Open Sensors
 Circuit Normal at 1000 Ohms = State 1
 Circuit Shorts = Trouble = State 2
 Circuit Opens = Trouble = State 3
 Sensor (NO) Closes = Alarm = State 4

State 1 = 1000 Ohms = Normal
 State 2 = Short = Trouble
 State 3 = Open = Trouble
 State 4 = 820 Ohms = Alarm