

SMART SWITCH TECHNOLOGIES



FD-Z1 Fire Monitor Installation Manual

FD-Z1 Specifications

Minimum smoke current (alarm current) = 10mA

Operate voltage = 9 - 30vdc

Quiescent Current = 34mA @12vdc

Maximum current per zone = 320mA (including EOL)

Siren/Buzzer output = 12vdc @ 800mA

All wire = UL Rated

Supply voltage @ 12vdc

Maximum sensors = 14 per zone

Must use 2k2 EOL resistor

Supply voltage @ 24vdc

Maximum sensors = 8 per zone

Must use 5k6 EOL resistor

FZ-D1 Operation

“OK” LED On = system is all ok..

“FAULT” LED On = either open or shorted smoke detection cable or sensor.

If there is a short on the line:

If a short is detected on the line the “OK” LED will turn Off, the “FAULT” LED and alarm will be turned On, the Sensor Output will also be turned Off. When the “SILENCE / RESET “ button is pushed the “FAULT” LED will turn Off and the zone “OK” LED will flash for one minute, after the one minute delay the Sensor Output will be turned On again to check the line. This procedure will repeat until the short is removed.

If the line is open circuit:

If an open circuit is detected on the line the “OK” LED will turn Off, the “FAULT” LED and alarm will be turned On. When the “SILENCE / RESET “ button is pushed the alarm will be muted.

When the system detects the EOL resistor the “FAULT” LED will turn Off and the “OK” LED will turn On.

“FIRE” LED On = A sensor has detected smoke or heat.

SILENCE / RESET Button:

This button will mute the audible alarm and reset the sensors.

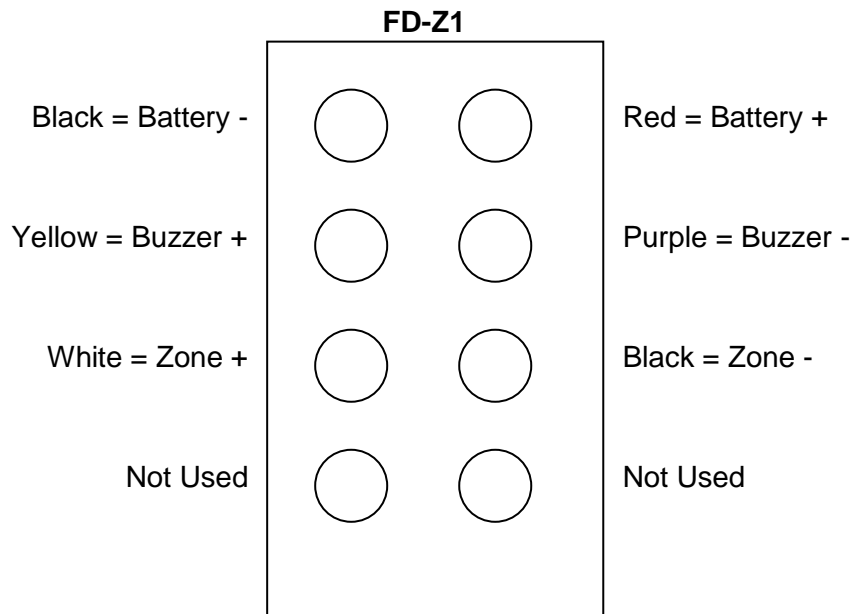
The “OK” LED will flash for one minute, after the one minute delay the Sensor Output will be turned On again. This is to allow the smoke to clear the sensor.

TEST Button:

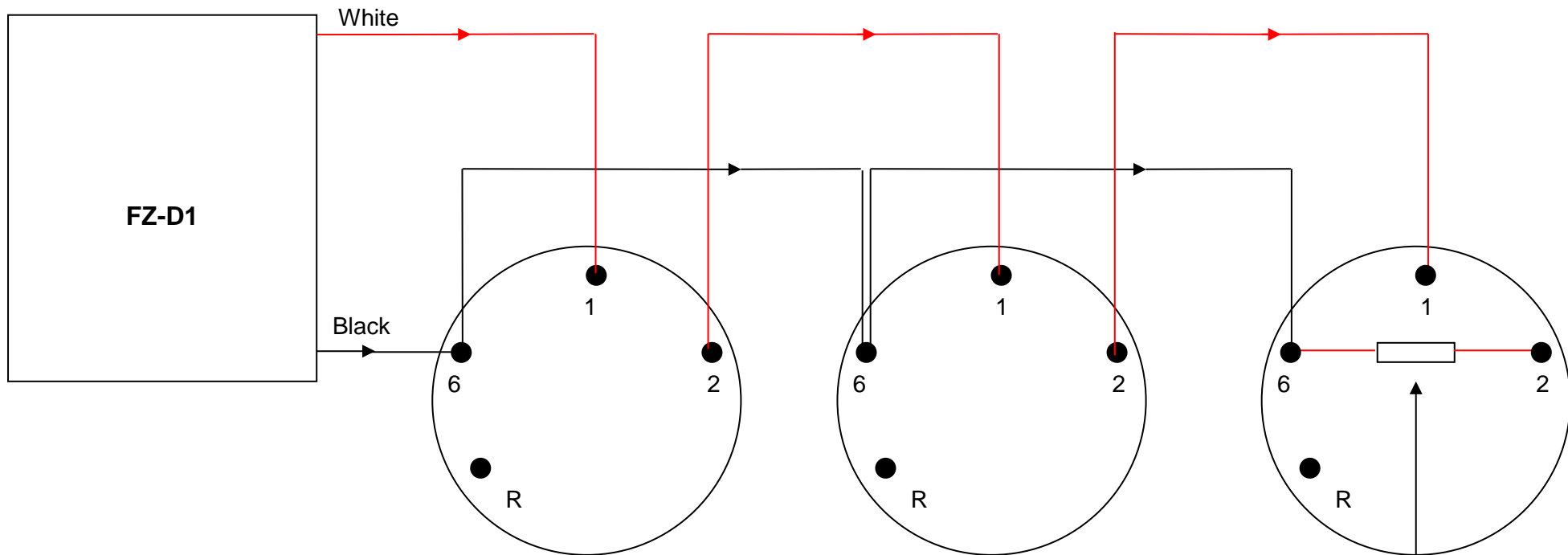
If the TEST button is pressed for three seconds the unit will go into Test mode.

All LEDs and the alarm will turn On for five seconds.

FD-Z1 Wiring



Connecting Multiple Sensors Per Zone (heat, smoke or both)



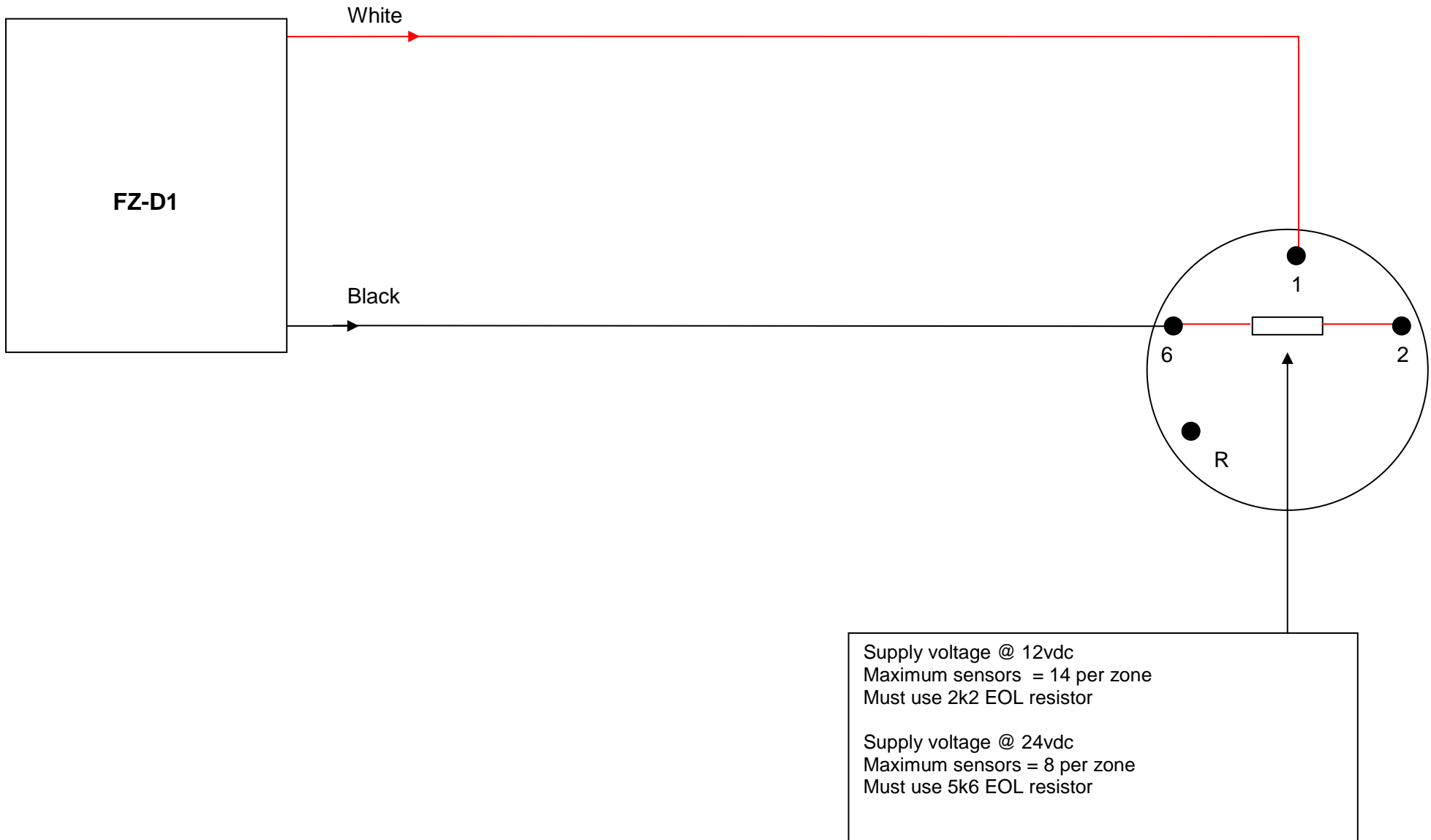
Note: Detector manufactures use different terminal designators, E.g. L1, L2, L3 **OR** Com -, In +, Out +

Note: For HOCHIKI brand use terminals 1, 2, & 6

Supply voltage @ 12vdc
Maximum sensors = 14 per zone
Must use 2k2 EOL resistor

Supply voltage @ 24vdc
Maximum sensors = 8 per zone
Must use 5k6 EOL resistor

Connecting one Sensors (heat or smoke)



©

All technologies, design and Intellectual Property is owned by

Penguin Electronics Ltd

Po Box 272, Waikanae, New Zealand

Ph: 0064-4 293-4201 Fax: 0064-4 293-4201

Mobile: 0064-274-919-805

Email: info@smartswitch.co.nz Web: www.smartswitch.co.nz