eurotech®
FIRE SYSTEMS LIMITED

ODYSSEY®

Odyssey Zone Monitor with Isolator (200-203)

The Odyssey Zone Monitor with Isolator powers and controls the operation of a zone of up to 20 fire detectors from the Odyssey loop and is for indoor use only.

Features

The Odyssey Zone Monitor with Isolator returns a preset analogue value when all detectors on the zone are in quiescent state. A different value is returned when a detector changes to the alarm state. The Zone Monitor with Isolator latches in the alarm state.
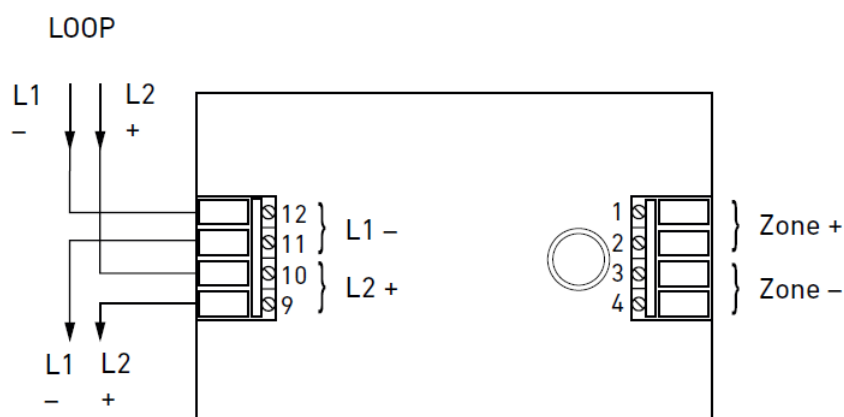
The Zone Monitor with Isolator is fitted with a bi-directional short circuit isolator and will be unaffected by loop shortcircuits on either the loop input or loop output.

Two LEDs, one red and one yellow, are visible through the front cover of the enclosure. The red LED is illuminated to indicate that a fire alarm condition has been detected on the zone wiring. The yellow LED is illuminated whenever the built-in isolator has sensed a short-circuit loop fault.
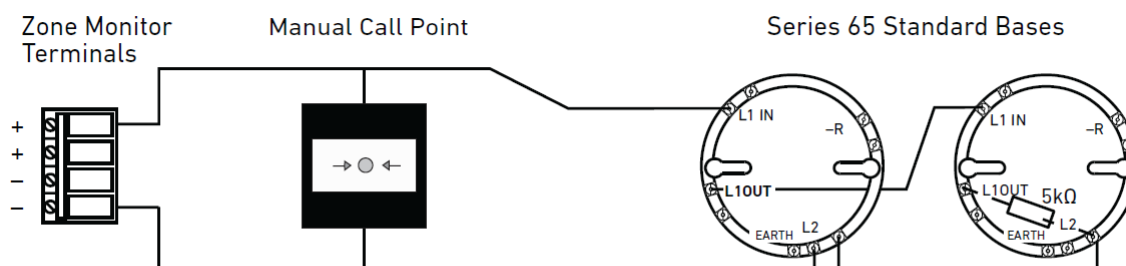
SPECIFICATIONS

All data is supplied subject to change without notice. Specifications are typical at 24 V, +25°C and 50% RH unless otherwise stated.	
Supply Voltage	17 V-28 V dc with protocol pulses of 5 - 9 V dc.
Zone voltage (Loop voltage 22 V) (Loop voltage < 22 V)	19 V ± 1 V Loop voltage - 1.5 V
Maximum current consumption at 24V (5.1 kΩ EOL): Switch-on surge, 150 ms max Quiescent Alarm Short circuit	 3.5 mA 4 mA plus detector load 11 mA (19 mA when increased current enabled) 11 mA
End-of-line resistor value	5.1 k ± 5% 1/3 W
Stabilisation time on power-up	4 seconds
Maximum capacitor on zone terminals	50 µF
Operating temperature	-20 ºC to +70 ºC
Humidity (no condensation)	0% to 95% RH
Standards and Approvals	CPR, LPCB, VdS, VNIIPO, FG, CCCf and CCMG
IP Rating	IP54
Dimensions	150 mm wide x 90 mm height x 48 mm deep
Weight	230 g
Materials	White flame retardant polycarbonate

LOOP CONNECTIONS

LOOP

L1 −   L2 +

12   } L1 −
11
10   } L2 +
9

1 } Zone +
2
3 } Zone −
4

L1 −   L2 +

ZONE CONNECTIONS

Standard bases with 5.1kΩ monitoring resistor at end of line

Zone Monitor Terminals   Manual Call Point   Series 65 Standard Bases

+
+
−
−

L1 IN   −R

L1OUT

EARTH   L2

L1 IN   −R

L1OUT   5kΩ

EARTH   L2

Note:
If a 5kΩ is used for monitoring all MCPs must be connected between the zone monitor unit and the first detector

LOOP CONNECTIONS

Diode bases with active EOL device

Zone Monitor terminals   Capacitor   Series 65 diode bases   Manual Call Point   Active EOL device

+
+
−
−

L1 IN   −R

L1OUT

EARTH   L2

L1 IN   −R

L1OUT

EARTH   L2