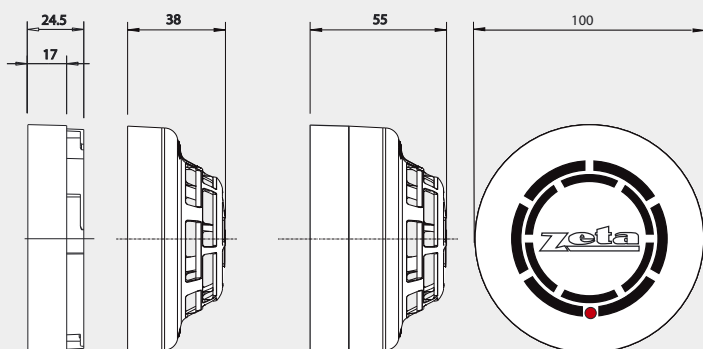


FEO2000 Fyreye Conventional Smoke Detector



The Fyreye optical smoke detector incorporates a pulsing infra red LED Located in an optical chamber inside the detector. The chamber is designed to eliminate the effect of any external light source.

A Photodiode is located inside the optical chamber at an angle to the IR LED. Under normal conditions no IR reaches the photodiode. But when smoke enters the chamber it causes the IR to scatter, and this will then be picked up by the photodiode. If the photodiode “sees” smoke on the 2 following pulses, the detector enters the alarm state, and lights its LED



MODEL	FEO2000
PART NO	80-020
SUPPLY VOLTAGE	9-33V dc
AVERAGE QUIESCENT CURRENT AT 9V	35µA
AVERAGE QUIESCENT CURRENT AT 24V	40µA
ALARM INDICATION	Clear LED, Red in alarm
ALARM CURRENT AT 9V	17mA
ALARM CURRENT AT 24V	52mA Max
ALARM TRIGGER CONDICTION	3% per Metre smoke obscuration
OPERATING TEMPERATURE	-20 to +60° C (non condensing or icing)
MAX. WIND SPEED	Not affected
REMOTE OUTPUT CHARACTERISTICS	Current Sink to -ve line (17mA max)
COMPATIBLE BASES	FE-CB Fyreye Common Base FE-DB Fyreye Diode Base FE-RB Fyreye Relay Base FE-SB Sounder Base FE-SFB Sounder Flasher Base FE-RB/AR 12V Auto Relay Base
DETECTOR SIZE (WITHOUT BASE)	100mm diameter x 40mm deep
WEIGHT (WITHOUT BASE)	94g