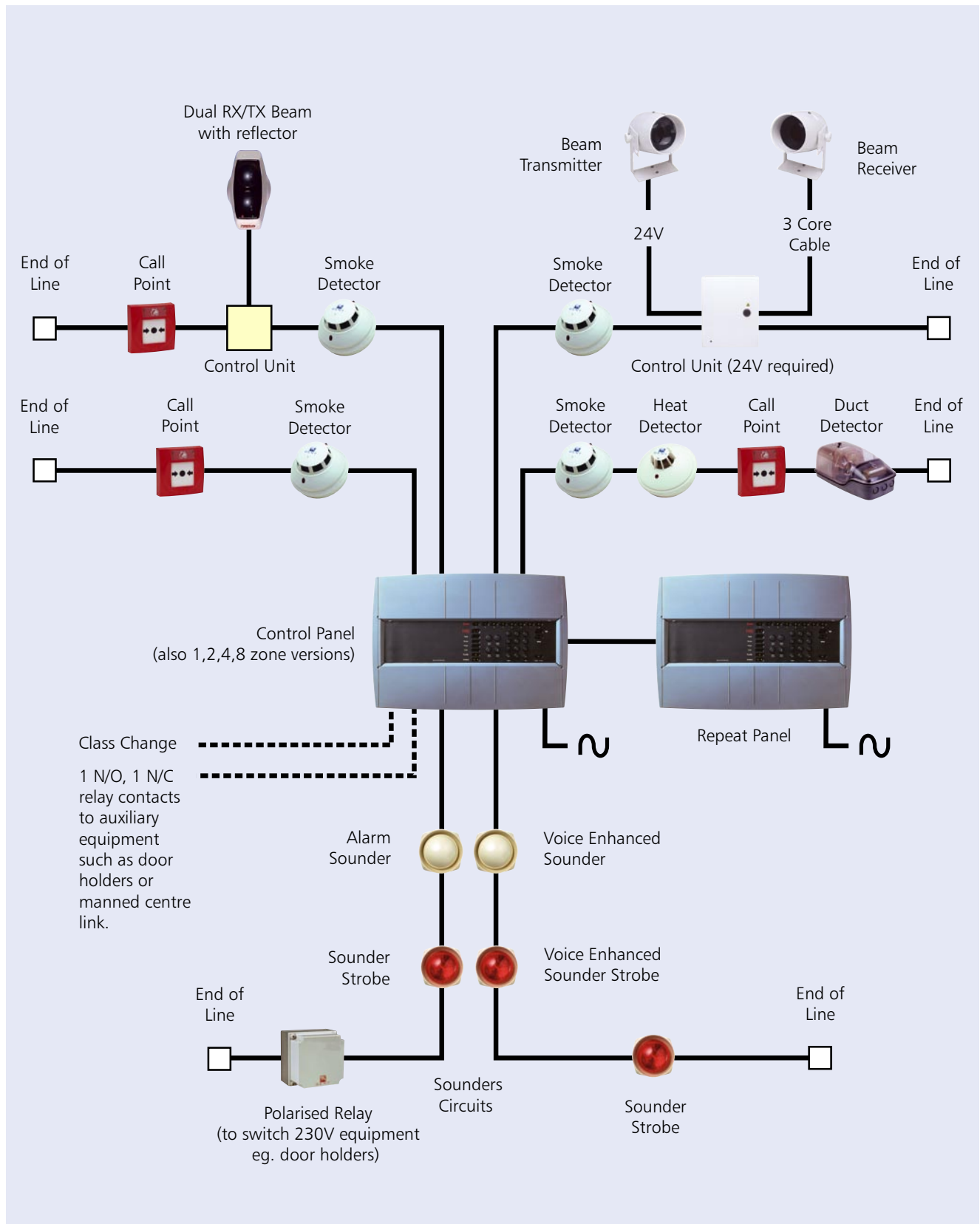


4: CONVENTIONAL FIRE DETECTION

GENT
by Honeywell

Xenex system architecture



Zone Loading

To calculate the zone loading of any system complete the table below and ensure that the grand total does not exceed system limits (Xenex is 3mA per zone).

	NO. (a)	QUIESCENT LOAD (μ A) (b)	TOTAL LOAD (μ A) (a x b)
Ionisation Smoke Detector		15	
Optical Smoke Detector		60	
Fixed Temperature Heat Detector		30	
Rate of Rise Heat Detector		30	
High Temperature Heat Detector		30	
24V dc Duct Detector		90	
			Grand Total

Notes:

1. If detector removal monitoring is required to comply with BS 5839, a detector base with diode should be used and the maximum number of detectors should not exceed 20 per zone.
2. Any number of manual call points may be included in zone calculations.
3. Beam detectors will require a separate power supply.

Sounder Circuit Loading

To calculate the maximum sounder loading complete the table below and ensure that the grand total does not exceed system limits. (For Xenex; maximum load per circuit is 0.5A. Total load maximum 1A).

	NO. (a)	OPERATING CURRENT (mA) (b)	TOTAL LOAD (mA) (a x b)
S3 Sounders and Strobes		*	
Sounder Base		18	
24V dc Bell		30	
24V dc Xenon (Low current)		45	
			Grand Total

*See tone table for specific operating currents (page 4 section 12).

Note:

1. Sirens will require a separate power supply.
2. Xenon flashers may require a separate power supply.