## Section 4:

## GENT by Honeywell

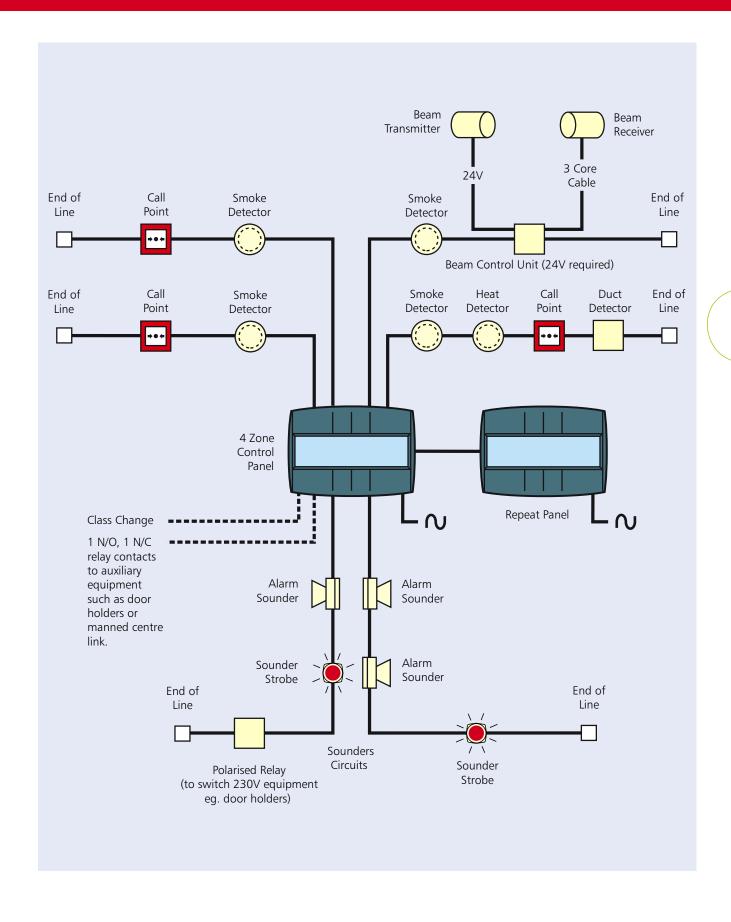
## **Xenex Conventional Fire Detection & Alarm System**





### GENT by Honeywell

## Xenex system architecture



by Honeywell

The Xenex panel complies fully with the European standard EN 54 Parts 2 & 4 and can be used on installations meeting BS 5839-1.

Each panel contains its own integral power supply and battery support for up to eight alarm sounder circuits, two auxiliary relay contacts, a zone disablement facility and a one man test and commission facility, all simplifying system design, installation and commissioning.

#### 4: CONVENTIONAL FIRE DETECTION

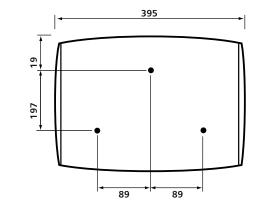
## Xenex control panel

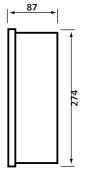


TECHNICAL SPECIFICATION	N				
No. of Zones	1	2	4	8	*8 Zone Repeat
Maximum Load per Zone	3mA	3mA	3mA	3mA	N/A
No. of Sounder Circuits	2	2	4	8	N/A
Max. Sounder Circuit Load	0.5A per circuit  Total load not to exceed 1A				
Batteries	2 x 12V, 2.1 Ah 2 x 12V, 2.8 Ah			2 x 12V, 2.1 Ah	
Battery Standby	72 hours plus 0.5 hours alarm load 72 hours				
Aux. Relay Contacts	1 N/O and 1 N/C pair, 1A at 24V N/A			N/A	
Approx Weight (with batteries)	5.8 Kg	5.8 Kg	5.8 Kg	6.2 Kg	5.8 Kg
Relevant Standard	EN 54 Parts 2 & 4				
Approvals	LPCB approved to EN54: Parts 2 & 4				
Cable Entry	13 Top and 13 Rear				
Cable Type	BS 6387, 2 core, min 1.5mm <sup>2</sup> CSA				
Class Change Facility	Via normally open push button switch located no more than N/A 100m from panel				
Operating Temperature	Indoor, 0 - 40°C				

Note: Maximum of 1, 8 zone repeat panel per system. Note: For maximum system loading table see page 20.

#### Dimensions of all panels (inc Repeat panel) (mm)



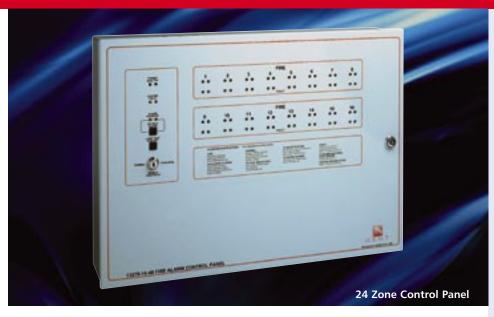


For flush mounting, aperture size 378mm x 245mm x 60mm

ORDER CODES	
1 Zone	13270-01
2 Zone	13270-02
4 Zone	13270-04
8 Zone	13270-08
8 Zone Repeat	
Panel	13271-08
Flush Surround	13270-29

## 12-24 Zone Control Panels by Honeywell





For larger applications a 12,16 or 24 zone conventional panel is available together with complementary repeat panels. The panel complies with BS 5839 and includes facilities such as one man zone test, bomb alert and zoned or two stage alarm outputs as required. For larger panel sizes or flush mounting versions please contact Gent.

TECHNICAL SPECIFICATION				
No. of Zones	12	16	24	
Maximum Load per Zone	1.6mA	1.6mA	0.8mA	
No. of Sounder Circuits	2 (extra sounder cir	cuits may be added using 4	way sounder cards)	
Max. Sounder Circuit Load		1A per circuit		
Batteries	2 x 7Ah,12V	2 x 7Ah,12V 2 x 7Ah,12V 2 x 12Ah,12V		
Battery Standby	24 hours - For 48 hour or 72 hour requirements consult Gent			
	Common fire contacts - Operates on fire condition			
Aux. Relay Contacts  All contacts rated at 30 Vdc	Zonal fire contacts - Per zone, operates on fire condition			
1A maximum	Alarm contacts - Operates with alarm sounders			
TA Maximum	Fault contacts - Operates on any fault condition			
Approx Weight	15kg 17kg 17.5kg		17.5kg	
Relevant Standard	BS 5839: Part 4 1988			
Cable Entry	Top and bottom			
Class Change Facility	Yes			

Note: If additional sounder circuits are required an extra power supply unit may be needed.

<b>←</b> A			Α	В	C
	<b>─</b>	12 Zone	500	355	105
		16 Zone	570	420	110
	B	24 Zone	570	420	110
	B	Repeat pane	I		
		12 Zone	370	295	80
<u> </u>	<b>—</b>	16 Zone	500	355	105
-	C	24 Zone	500	355	105

ORDER CODES	
12 Zone	13275-12
16 Zone	13275-16
24 Zone	13275-24
Repeat Panel	
12 Zone	03276-12
16 Zone	03276-16
24 Zone	03276-24
4 Way Extension	
Sounder Card	03277-04

by Honeywell

Manual call points are manufactured from ABS with plastic covered push break glasses for safe and simple operation. No hammer is required. For nonstandard variations such as LED versions see page 19.

A polycarbonate cover version is available for applications susceptible to inadvertent operation, such as sports halls.

Note: All manual call points can be flush mounted by using a flush fixing plate.

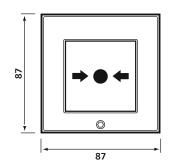
#### 4: CONVENTIONAL FIRE DETECTION

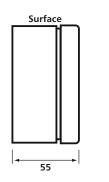
## Manual Call Points



TECHNICAL SPECIFICATION	
Nominal Voltage	24V dc
Ingress Protection	IP54 with gasket
Approx Weight	0.15 Kg
Operating Temperature	0°C to +50°C
Relevant Standard	EN 54-11
Approvals	LPCB applied for

# ORDER CODES Standard Call Point 14112-08EN Call Point with cover 14112-48EN Weather Resistant 14112-19 Gasket Kit Pack of 10 Spare 14112-09EN Glasses Flush fixing plate 19289-01







## Smoke Detectors

## GENT

by Honeywell



Smoke detectors for general fire detection applications.

lonisation smoke detectors are more suited to fast burning, high energy fires whilst optical smoke detectors are suited for slow smouldering fires.

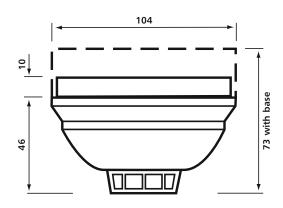
ABS casing with red LED fire indicator.

TECHNICAL SPECIFICATION				
Туре	Ionisation	Optical		
Nominal Voltage	8 - 28V dc	9 - 28V dc		
Quiescent Current	15μΑ 60μΑ			
Ingress Protection	IP30	IP30		
Approx Weight	0.11 Kg 0.11 Kg			
Operating Temperature	-10°C to +50°C			
Relevant Standards	EN 54-7			
Approvals	LPCB approved			

**Special feature** The use of the diode base allows monitoring of a removed detector to comply with BS 5839.

N.B. Maximum of 20 per zone.





ORDER CODES	
Ionisation	17830-01
Optical	17840-01
Common Base	17800-02
Common Base	
with Diode	17801-02
Base less Diode	
(surface cabling)	17800-01
Base with Diode	
(surface cabling)	17801-01
Remote LED module	17899-01
Remote Relay module	17899-44

by Honeywell

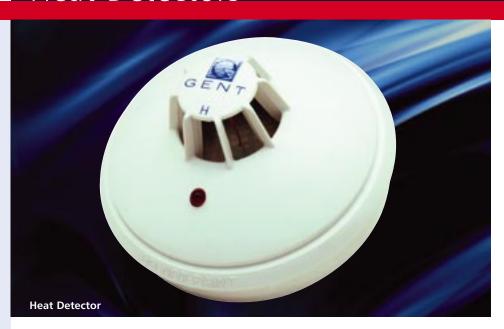
Heat detectors operate when a certain temperature is reached and are better suited to smokey, dusty or steamy environments than smoke detectors.

High fixed temperature devices are advised for kitchens or boiler rooms. Standard fixed temperature devices are suitable for areas where the temperature fluctuates for natural reasons or due to certain industrial processes.

ABS casing with red LED fire indicator.

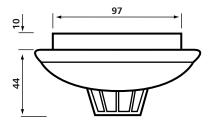
#### 4: CONVENTIONAL FIRE DETECTION

## **Heat Detectors**



TECHNICAL SPECIFICATION					
Туре	Fixed Temp.	Rate of Rise	High Fixed Temp.		
Nominal Voltage	28V dc	28V dc	24V dc		
Quiescent Current	30μΑ	30μΑ	30μA		
Ingress Protection	IP30	IP30	IP30		
Approx Weight	0.07 Kg	0.07 Kg	0.07 Kg		
Operating Temperature	-10°C to +50°C				
Relevant Standards	EN 54 Part 5	EN 54 Part 5	EN 54 Part 8		
Approvals	LPCB	LPCB	-		
Trigger Temperature	58°C	NA (Factory preset 58°C)	85°C		
Sensitivity	Grade 1	Grade 1	Grade 2		

#### Dimensions (mm)



## ORDER CODES Fixed Temperature 17850-01 Rate of Rise 17860-01 High Fixed Temperature 17870-01

## Beam Smoke Detectors





are suitable for large open areas where installation of single point detectors may be difficult or uneconomical.

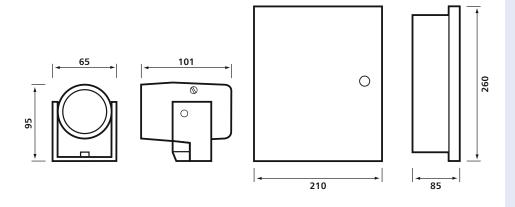
Sheet steel case in an ivory finish.

Adjustable brackets.

Note: An additional 24V dc power supply is required.

Optical smoke beam detectors

TECHNICAL SPECIFICATION		
Nominal Voltage	24V dc	
Ovicement Course	Receiver: - 8mA	
Quiescent Current	Transmitter: - 5mA	
Ingress Protection	IP 50	
Approx Packaged Weight	3.2 Kg	
Ambient Temperature	-10°C to 50°C	
Relevant Standards	BS 5839-5	
Beam Length	10m - 100m	
Mounting Height	2.7m - 25m	



ORDER CODES	
Beam Detector	07011-41

by Honeywell

The duct detector kit is comprised of a conventional detector and duct detector housing.

The duct detector is mounted on the outside of the air duct with the Venturi tube protruding through a hole into the duct. A sample of the air inside the duct is fed into the smoke detector via the Venturi tube and then returned to the duct through the Venturi tube.

When the smoke density in the sampled air reaches the trigger level of the smoke detector an alarm will be signalled on the fire alarm control panel.

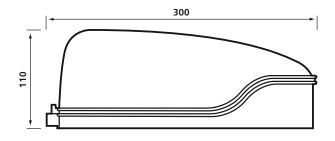
#### 4: CONVENTIONAL FIRE DETECTION

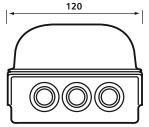
## **Duct Smoke Detector**



TECHNICAL SPECIFICATION	
Ingress Protection	IP54
Operating Temperature	-10°C to +60°C
Approx Weight	0.7Kg
Finish	ABS plastic (Grey)
Air Velocity	1M/S to 20M/S
Quiescent Current	90μΑ

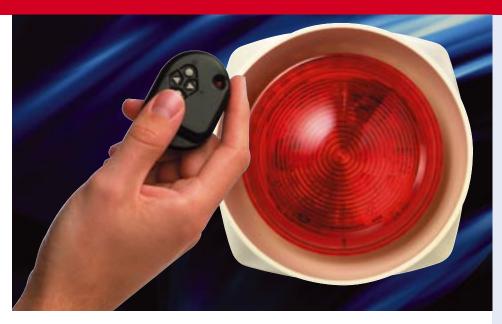
# ORDER CODES Duct Detector 17815-01 Venturi Tube, 2.8m 781458 Venturi Tube, 1.5m 781457 Venturi Tube, 0.6m 781456 Mounting Kit For round and installed air ducts 781459 Remote Relay Module 17899-44





## S<sup>3</sup> Electronic Sounders / Strobes

### GENT by Honeywell



TECHNICAL SPECIFICATION – 1.0. SOUNDERS AND STROBES							
Туре	Sounder	Sounder/Strobe	Strobe Only				
Sound Output at 1m	See Tone Table	See Tone Table	N/A				
Strobe Flash Rate	See Tone Table	See Tone Table	Variable				
Strobo Output	N/A	Equivalent to a 3w Xenon	Equivalent to a 3w Xenon				
Strobe Output	IN/A	Strobe	Strobe				
Average Current	See Tone Table	See Tone Table	6 mA				
Cun abus missation	Sound & Strobe synchronisation better than ±30mS over 20 minutes with all units						
Synchronisation	powered from the same circuit						
Operating Voltage Range	10.8V – 28.8V	10.8V - 28.8V	10.8V - 28.8V				
Ingress Protection	IP55C with th	e Deep Base IP31C with the	Shallow Base				
Approx Weight	0.3Kg	0.3Kg	0.3Kg				
Operating Temperature	-10°C to 50°C	-10°C to 50°C	-10°C to 50°C				
Relevant Standards (Sounder	ENEA 2	ENE 4.2	NI/A				
only)	EN54-3	EN54-3	N/A				
IR Control Operating	3m	3m	NI/A				
Distance	IIIC	IIIC	N/A				
Approvals	LPCB approved to EN 54-3						

- Very low power consumption means more sounders and strobes per circuit
- The strobe option is equivalent to a standard 3w xenon strobe and uses 1/20th of the power
- 32 sounder tones are available
- Voice enhanced sounders are available in the range
- 4 voice phrases and a bell sound are available as standard
- All sound and strobe signals are synchronised to better than +/- 30mS over 20 minutes
- Sounders are compatible with 12V and 24V systems
- A third wire option allows the selection of 2 alternative sounds. Ideal for class change applications
- Products incorporate innovative design features for which multiple patents are pending

The S-cubed range of alarm sounders incorporate sound, speech and strobe effects all in one range of alarm devices. The range offers all variants in the choice of 2 colours red or white with either a shallow base version sealed to IP31 or a deep base version sealed to IP55. All the low profile sounders have the option of an integral strobe. As an aid to commissioning there is the option to use the HandiLink IR remote control to select sounder tones and adjust the volume remotely. This means physical access is not required to make this adjustment. This facility is only active when the sounders are turned on from the fire alarm panel.

ORDER CODES							
IP31 Low Profile Sounders							
Sounder/Strobe Red	C3-SN-ST-RR						
Sounder/Strobe White	C3-SN-ST-WR						
Sounder Red	C3-SN-R						
Sounder White	C3-SN-W						
IP65 Low Profile Sou	ınders						
Sounder/Strobe Red	C3IP-SN-ST-RR						
Sounder/Strobe White	C3IP-SN-ST-WR						
Sounder Red	C3IP-SN-R						
Sounder White	C3IP-SN-W						
IP65 Strobe only							
Strobe Red Body/							
Red Lens	C2IP-ST-RR						
Remote Control							
HandiLink IR Remote							
Control	S3-CONTROL						



## S<sup>3</sup> Electronic Sounders / Strobes

TONE	TABLE I	FOR SOUNDER ONLY AND SO	OUNDER / S	TROBE VARIA	NTS	12V			24V					
Signal 1	Strobe	Description	SW1 Switch	Graphical	dB(A) @1m	Operating With Strobe	Current Without	dB(A) @1m	Operatin With	g Current Without	Signal 2	Strobe	Signal 3	Strobe
		Alternating tone 800/ 970Hz @ 2Hz -		representation		mA	Strobe mA		Strobe mA	Strobe mA				
Tone 1	1Hz	FP 1063.1 Telecoms BS 5839: Part 1	6 5 4 3 2 1		101.8	16.5	7.4	101.8	9.5	3.4	Tone 3	0.5Hz	Tone 6	1Hz
Tone 2	1Hz	Alternating tone 800/ 970Hz @ 1Hz - BS 5839: Part 1	6 5 4 3 2 1		101.7	16.5	7.3	101.7	9.5	3.4	Tone 3	0.5Hz	Tone 6	1Hz
Tone 3	1Hz	Intermittent tone 970Hz @ 1Hz LF back up alarm - BS 5839: Part 1	6 5 4 3 2 1		101.6	15.5	4.5	101.6	8.2	2.0	Tone 5	0.8Hz	Tone 6	1Hz
Tone 4	1Hz	Intermittent tone 2850Hz @ 1Hz HF back up alarm - 2nd tone BS 5839: Part 1	6 5 4 3 2 1		103.7	15.8	5.5	103.7	8.5	2.5	Tone 3	0.5Hz	Tone 6	1Hz
Tone 5	0.8Hz	Intermittent tone 970Hz 0.25s - on, 1s off - BS 5839: Part 1	6 5 4 3 2 1		101.2	12.0	2.0	101.4	6.0	1.0	Tone 2	0.5Hz	Tone 6	1Hz
Tone 6	1Hz	Continuous @ 970Hz - BS 5839: Part 1	6 5 4 3 2 1		102.0	16.5	8.0	102.1	9.8	3.7	Tone 3	0.5Hz	Tone 1	1Hz
Tone 7	0.5Hz	Slow sweep 300Hz- 1200Hz over 2s - Vds2300 Signal	6 5 4 3 2 1	1—1—1	99.3	13.0	7.9	99.3	7.0	3.7	Tone 3	0.5Hz	Tone 6	1Hz
Tone 8	1Hz	Fast sweep 800Hz - 970Hz @ 7Hz - BS 5839: Part 1	6 5 4 3 2 1	11111111	93.5	16.3	8.2	93.7	9.4	3.7	Tone 3	0.5Hz	Tone 6	1Hz
Tone 9	1Hz	Medium sweep 800Hz - 970Hz @ 1Hz - BS 5839: Part 1	6 5 4 3 2 1	1111	94.1	16.5	8.7	94.3	9.5	4.0	Tone 3	0.5Hz	Tone 6	1Hz
Tone 10	1Hz	Continuous @ 2850Hz	6 5 4 3 2 1		104.4	16.5	9.7	104.7	10.2	4.4	Tone 3	0.5Hz	Tone 6	1Hz
Tone 11	1Hz	Sweep 2400 - 2850Hz @ 7Hz	6 5 4 3 2 1	11111111	100.2	16.5	11.2	100.8	10.6	5.4	Tone 12	0.5Hz	Tone 10	1Hz
Tone 12	1Hz	Sweep 2400 - 2850Hz @ 1Hz	6 5 4 3 2 1	1111	101.9	16.5	12.0	102.7	11.5	5.8	Tone 3	0.5Hz	Tone 10	1Hz
Tone 13	0.86Hz	Slow whoop 500Hz - 1200Hz over 3s with 0.5s off	6 5 4 3 2 1	1	98.8	15.5	7.5	99.2	8.7	3.5	Tone 3	0.5Hz	Tone 6	1Hz
Tone 14	1Hz	Sweep 1200Hz @ 1200Hz - 500Hz @ 1Hz with 10ms silence - German DIN tone evacuate	6 5 4 3 2 1	7777	96.6	16.2	7.3	98.1	9.5	3.5	Tone 3	0.5Hz	Tone 6	1Hz
Tone 15	1Hz	Alternating tone 2400/ 2850Hz @ 2Hz	6 5 4 3 2 1		101.7	16.5	12.0	102.5	11.8	6.2	Tone 12	0.5Hz	Tone 10	1Hz
Tone 16	1Hz	Alternating tone 554Hz for 100mS then 440Hz for 400ms - French AFNOR tone	6 5 4 3 2 1	~~~~	89.3	15.8	5.2	89.6	8.7	2.5	Tone 3	0.5Hz	Tone 6	1Hz
Tone 17	1Hz	Alternating tone 440Hz / 554Hz @ 2Hz - Turn out Sweden	6 5 4 3 2 1		90.1	15.8	5.7	90.3	8.9	2.8	Tone 19	0.5Hz	Tone 18	1Hz
Tone 18	1Hz	Continuous 700Hz - All clear Sweden	6 5 4 3 2 1		95.9	16.2	7.0	96.3	9.8	3.3	Tone 1	0.5Hz	Tone 3	1Hz
Tone 19	1Hz 6s - On 12s - Off	Intermittent tone 700Hz 6s On 12s Off - Pre- vital message Sweden	6 5 4 3 2 1		95.9	6.1	4.0	96.3	5.0	2.3	Tone 17	0.5Hz	Tone 18	1Hz
Tone 20	1Hz	Intermittent tone 1000Hz @ 1Hz - Local warning Sweden	6 5 4 3 2 1		100.6	15.5	5.8	101.0	8.5	2.7	Tone 17	0.5Hz	Tone 25	1Hz
Tone 21	1Hz	Rising 1s, constant 4s, fall 1s @ 1000Hz - Industrial alarm Germany	6 5 4 3 2 1	<b>~</b>	100.9	16.0	10.0	101.2	10.0	4.0	Tone 3	0.5Hz	Tone 6	1Hz
Tone 22	1Hz 4s - On 4s - Off	Intermittent tone 700Hz 4s On , 4s Off - Industrial alarm Germany	6 5 4 3 2 1		101.4	8.7	5.7	101.9	6.4	3.0	Tone 19	0.5Hz 6s - On 12s - Off	Tone 6	1Hz
Tone 23	Sync. pulses	Emergency evacuation to ISO 8201 - ISO 8201 Tone	6 5 4 3 2 1		104.0	12.0	4.0	104.5	6.0	1.5	Tone 3	0.5Hz	Tone 6	1Hz
Tone 24	1Hz	Slow whoop 500Hz - 1000Hz over 4.5s - Evacuate Netherlands	6 5 4 3 2 1	<u> </u>	99.6	16.0	7.2	100.2	9.5	3.4	Tone 3	0.5Hz	Tone 6	1Hz
Tone 25	1Hz	Siren (ramp up from 500Hz - 1200Hz in 3s then ramp down 1200Hz - 500Hz in 3s)	6 5 4 3 2 1	~~~	98.2	16.0	7.5	98.5	9.5	3.5	Tone 3	0.5Hz	Tone 6	1Hz
Tone 26	1Hz	Fast whoop 500Hz - 1000Hz @ 7Hz	6 5 4 3 2 1	<i></i>	95.8	15.8	7.0	96.0	8.7	3.3	Tone 24	0.5Hz	Tone 25	1Hz
Tone 27	Sync. pulses	US temporal tone LF	6 5 4 3 2 1	_vvvv_	100.6	12.0	3.0	100.6	5.5	1.0	Tone 3	0.5Hz	Tone 6	1Hz
Tone 28	Sync. pulses	US temporal tone HF	6 5 4 3 2 1		99.0	11.8	2.5	99.0	5.3	0.8	Tone 4	0.5Hz	Tone 6	1Hz
Tone 29	1Hz	LF buzz 800Hz- 970Hz @ 50Hz	6 5 4 3 2 1		98.8	16.3	9.4	99.2	10.0	4.3	Tone 3	0.5Hz	Tone 6	1Hz
Tone 30	1Hz	Alternate 2500/ 3100 @ 2Hz - Security alarm	6 5 4 3 2 1		101.6	16.5	13.0	102.2	10.8	6.4	Tone 3	0.5Hz	Tone 31	1Hz
Tone 31	1Hz	Alternate 2500 / 3100 @ 4Hz	6 5 4 3 2 1	~~~~	101.2	16.5	13.0	102.0	10.8	6.4	Tone 3	0.5Hz	Tone 8	1Hz
Tone 32	1Hz	Define during manufacture - default is a fast siren	6 5 4 3 2 1	~~~~	98.8	16.0	7.5	99.2	9.5	3.5	Tone 3	0.5Hz	Tone 6	1Hz

Note: The current data in the table is for Red strobe only.

The nominal sound frequencies stated in the table are based on the resonance frequency of the transducer. Tone 1 is the factory default setting

## S<sup>3</sup> Voice Enhanced Sounders

G	E	N	T
b	y Hon	eywel	l

TECHNICAL SPECIFICATION – 1.1 VOICE ENHANCED SOUNDERS & STROBES							
Туре	Voice Enhanced Sounder	Voice Enhanced Sounder/Strobe					
Sound Output at 1m	See Table 3	See Table 3					
Strobe Flash Rate	See Table 3	See Table 3					
Strobe Output	Equivalent to a 3	Bw Xenon Strobe					
Average Current	See Table 3	See Table 3					
Synchronication	Sound & Strobe synchronisation better than $\pm$ 30mS over 20 minutes						
Synchronisation	with all units powered from the same circuit						
Message and Attention Tone Period	10 Seconds	10 Seconds					
Operating Voltage Range	10.8V - 28.8V	10.8V – 28.8V					
Maximum Reverse Monitoring	201//2011	301//301/4					
Voltage	30V/20μA	30V/20μA					
Ingress Protection	IP55C with the Deep Base	IP31C with the Shallow Base					
Approx Weight	0.3 Kg	0.3 Kg					
Operating Temperature	-10°C to 50°C	-10°C to 50°C					
IR Control Operating Distance	3m	3m					

CONVENTIONAL S	SPEECH SOUNDER AND STROBE						
Table 1							
Message No.	Speech Message						
M1	Attention please this is an emergency please leave the building by the nearest available exit. (Female voice)						
M2	An incident has been reported in this building please await further instructions.	(Female voice)					
M3	This is a test message no action is required. (Female voice)						
M4	This is a fire alarm! Please leave the building immediately by the nearest availab	le exit. (Male voice)					
Complex Tone No.	Description of Tone						
СТО	Alarm Bell (equivalent to 8" Solenoid Bell)  12V 105dB(A) @ 1m with strobe 14.2mA (without strobe 4.5mA)  24V 105.5dB(A) @ 1m with strobe 12mA (without strobe 4.5mA)						
	Standard messages and complex tones (Voice IC 2202- 001)						
	Statudalu messages and complex tones (voice ic 2202-001)						
Table 2							
Tone	Description	Graphical representation					
Tone 1	Alternating tone 800/ 970Hz @ 2Hz - FP 1063.1 Telecoms						
Tone 2	Intermittent tone 970Hz @ 1Hz LF back up alarm - BS 5839: Part 1	7					
Tone 3	Intermittent tone 970Hz 0.25s on, 1s off - BS 5839: Part 1						
Tone 4	Continuous @ 970Hz - BS 5839: Part 1						
Tone 5	Fast sweep 800Hz - 970Hz @ 7Hz - BS 5839: Part 1	MMM					
Tone 6	Medium sweep 800Hz - 970Hz @ 1Hz - BS 5839: Part 1	1111					
Tone 7	Sweep 1200Hz @ 1200Hz - 500Hz @ 1Hz with 10ms silence - German DIN tone evacuate	<i></i>					
Tone 8	Alternating tone 440Hz / 554Hz @ 2Hz - Turn out Sweden						
Tone 9	Intermittent tone 1000Hz @ 1Hz - Local warning Sweden						
Tone 10	Intermittent Tone 700Hz 4s On , 4s Off - Industrial alarm Germany						
Tone 11	Fast whoop 500Hz - 1000Hz @ 7Hz	MMM					
Tone 12	US temporal tone LF						
Tone 13	US temporal tone HF						
Tone 14	Define during manufacture - default is a fast siren	~~~~					

Note: Only the messages and complex tones specified in table 1 are applicable to this S-cubed product.

Note: The nominal sound frequencies stated in the table are based on the resonance frequency of the transducer.

## How to select a speech message and attention tone

- 1. Select the required speech message and tone from the signal 1 column of table 3 referring to table 1 and 2 for message and tone descriptions.
- 2. If the third wire option is used the two alternative messages and ones for your first selection are shown on the right hand side of table 3.
- 3. After making a selection set the switch SW1 as shown in the SW1 column of table 3.

#### **ORDER CODES IP31 Low Profile Sounders** Voice Sounder Red C3-VO-R C3-VO-W Voice Sounder White Voice Sounder/Strobe Red C3-VO-ST-RR Voice Sounder/Strobe White C3-VO-ST-WR **IP65 Low Profile Sounders** Voice Sounder Red C3IP-VO-R C3IP-VO-W Voice Sounder White C3IP-VO-ST-RR Voice Sounder/Strobe Red Voice Sounder/Strobe White C3IP-VO-ST-WR **Remote Control** HandiLink IR Remote Control S3-CONTROL



## S<sup>3</sup> Voice Enhanced Sounders

	TABLE 3	3 – TON	IE / VOI	CE TABLE F	OR VOICE	OR VOICE AND VOICE / STROBE VARIANTS  Decibel (dBA) and current (mA) values						Intermittent 1S On and 1S Off					
	Signal 1 Message	Strobe	Attention Tone	SW1 Switch	12V dB(A) @1m	With Strobe mA	Without Strobe mA	24V dB(A) @1m	With Strobe mA	Without Strobe mA	Signal 2 Message	Strobe	Attention Tone	Signal 3 Message	Strobe	Attention Tone	
	M1	1Hz	Tone 1	6 5 4 3 2 1	101.8	16.5	7.4	101.8	9.5	3.4	M2	0.5Hz	Tone 2	M3	1Hz	Tone 4	
	M1	1Hz	Tone 6	6 5 4 3 2 1	94.1	16.5	8.7	94.3	9.5	4.0	M2	0.5Hz	Tone 3	M3	1Hz	Tone 4	
	M1	1Hz	Tone 11	6 5 4 3 2 1	95.8	15.8	7.0	96.0	8.7	3.3	Tone 5	0.8Hz	Tone 6	M3	1Hz	Tone 4	
	M1	1Hz	Tone 5	6 5 4 3 2 1	93.5	16.3	8.2	93.7	9.4	3.7	Tone 3	0.5Hz	Tone 6	М3	1Hz	Tone 4	
	M1	1Hz	Tone 8	6 5 4 3 2 1	90.1	15.8	5.7	90.3	8.9	2.8	Tone 2	0.5Hz	Tone 6	M3	1Hz	Tone 4	
	M1	1Hz	Tone 7	6 5 4 3 2 1	96.6	16.2	7.3	98.1	5.5	1.0	Tone 3	0.5Hz	Tone 1	M3	1Hz	Tone 4	
AGES	M1	1Hz	Tone 12	6 5 4 3 2 1	98.8	16.0	7.5	99.2	9.5	3.5	Tone 3	0.5Hz	Tone 6	M3	1Hz	Tone 4	
MESS,	M1	1Hz	Tone 14	6 5 4 3 2 1	101.8	16.5	7.4	101.8	9.5	3.4	Tone 3	0.5Hz	Tone 6	M3	1Hz	Tone 14	
ATTENTION TONE FOLLOWED BY SPEECH MESSAGES	M4	1Hz	Tone 1	6 5 4 3 2 1	94.1	16.5	8.7	96.0	8.7	3.3	Tone 3	0.5Hz	Tone 6	М6	1Hz	Tone 4	
Y SPE	M4	1Hz	Tone 6	6 5 4 3 2 1	93.5	16.3	8.2	93.7	9.4	3.7	Tone 3	0.5Hz	Tone 6	М6	1Hz	Tone 4	
VED B	M4	1Hz	Tone 11	6 5 4 3 2 1	90.1	15.8	5.7	90.3	8.9	2.8	Tone 12	0.5Hz	Tone 10	М6	1Hz	Tone 4	
LLOV	M4	1Hz	Tone 5	6 5 4 3 2 1	96.6	16.2	7.3	98.1	9.5	3.5	Tone 3	0.5Hz	Tone 10	М6	1Hz	Tone 4	
S H	M4	1Hz	Tone 8	6 5 4 3 2 1	100.6	12.0	3.0	100.6	5.5	1.0	Tone 3	0.5Hz	Tone 6	М6	1Hz	Tone 4	
N TO	M4	1Hz	Tone 7	6 5 4 3 2 1	98.8	16.0	7.5	99.2	9.5	3.5	Tone 3	0.5Hz	Tone 6	М6	1Hz	Tone 4	
OITN	M4	1Hz	Tone 12	6 5 4 3 2 1							Tone 12	0.5Hz	Tone 10	М6	1Hz	Tone 4	
ATTE	M4	1Hz	Tone 14	6 5 4 3 2 1							Tone 3	0.5Hz	Tone 6	M3	1Hz	Tone 14	
	M1	1Hz	СТ0	6 5 4 3 2 1							Tone 19	0.5Hz	Tone 18	M3	1Hz	СТО	
	M1	1Hz	CT1	6 5 4 3 2 1							Tone 1	0.5Hz	Tone 3	M3	1Hz	CT1	
	M1	1Hz	CT2	6 5 4 3 2 1							Tone 17	0.5Hz	Tone 18	M3	1Hz	CT2	
	M1	1Hz	CT3	6 5 4 3 2 1							Tone 17	0.5Hz	Tone 25	M3	1Hz	СТЗ	
	M1	1Hz	CT4	6 5 4 3 2 1							Tone 3	0.5Hz	Tone 6	M3	1Hz	CT4	
	M1	1Hz	CT5	6 5 4 3 2 1							Tone 19	0.5Hz 6s - On 12s	Tone 6	M3	1Hz	CT5	
	M1	1Hz	CT6	6 5 4 3 2 1	Refer t	o decibel (dBA)	) and current (r	nA) values state	ed in Table 1.		Tone 3	0.5Hz	Tone 6	M3	1Hz	CT6	
	M1	1Hz	CT7	6 5 4 3 2 1							Tone 3	0.5Hz	Tone 6	M3	1Hz	СТ7	
	-	1Hz	СТ0	6 5 4 3 2 1							Tone 3	0.5Hz	Tone 6	-	1Hz	СТО	
	-	1Hz	CT1	6 5 4 3 2 1							Tone 24	0.5Hz	Tone 25	-	1Hz	CT1	
	-	1Hz	CT2	6 5 4 3 2 1							Tone 3	0.5Hz	Tone 6	-	1Hz	CT2	
TONE ONLY	-	1Hz	CT3	6 5 4 3 2 1							Tone 4	0.5Hz	Tone 6	-	1Hz	СТЗ	
TONE	-	1Hz	CT4	6 5 4 3 2 1							Tone 3	0.5Hz	Tone 6	-	1Hz	CT4	
	-	1Hz	CT5	6 5 4 3 2 1							Tone 3	0.5Hz	Tone 31	-	1Hz	CT5	
	-	1Hz	CT6	6 5 4 3 2 1							Tone 3	0.5Hz	Tone 8	-	1Hz	CT6	
	-	1Hz	CT7	6 5 4 3 2 1							Tone 3	0.5Hz	Tone 6	-	1Hz	СТ7	

Note: Only the complex tones (CTn) and speech messages (Mn) specified in Table 1 are valid.

The highlighted row in this table shows the factory default setting of the S-cubed unit.

## GENT

by Honeywell

## Bells

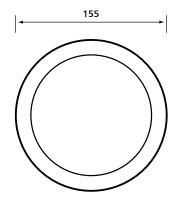


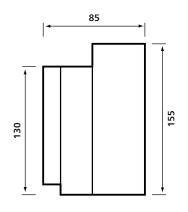
An electric bell for a wide range of uses.

Metal casing available in red or grey finish.

Suitable for semi flush or surface mounting.

TECHNICAL SPECIFICATION					
Туре	24V dc	230V ac			
La conser Donata estica	Standard IP40	Standard IP41			
Ingress Protection	Special IP55	Special IP55			
Approx Weight	1.1 Kg	1.25 Kg			
Operating Temperature	Indoor, -10°C to +50°C				
Sound Output at 1m	93dB(A)	96dB(A)			
Current at Nominal Voltage	30mA	30mA			
Relevant Standard	EN 54-3				





ORDER CODES	
24V dc Bell, Red	12141-04
24V dc Bell, Red, IP55	12143-04
230V ac Bell, Red	12142-09
230V ac Bell, Red, IP55	12144-09
24V dc Bell, Grey	12141-54
230V ac Bell, Grey	12142-59
230V ac Bell, Grey IP55	12144-59

by Honeywell

To close fire doors in an emergency and prevent the spread of fire and smoke.

Moulded ABS and steel enclosure capable of floor or wall mounting.

Complies with BS 5839-3.

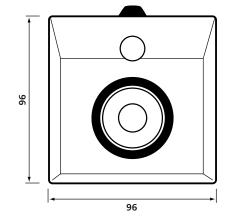
#### 4: CONVENTIONAL FIRE DETECTION

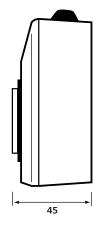
## Door Release



TECHNICAL SPECIFICATION						
	Wall Mounted	Wall Mounted	Floor Mounted			
Туре	24V dc	230V ac	24V dc			
Approx Weight	Door plate, 0.07 Kg Door holder, 0.53 Kg					
Current Consumption	21mA 12mA		45mA			
Operating Temperature	Indoor/Outdoor, -10°C to + 50°C					
Nominal Magnetic Pull	112 Newton 200 Newton					
Relevent Standard	BS 5839- 3					
Finish	Moulded ABS					

## ORDER CODES 24V dc Door Holder c/w door plate 04390-31 230V ac Door Holder c/w door plate 04390-55 Door Holder Floor Plate 04390-92 24V dc Relay 19107-52 Door Holder Floor Mounted 04390-41







## GENT

by Honeywell

## Relays

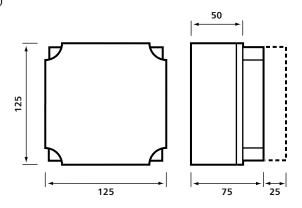


Low profile enclosure to house mini relays for light loads or deep enclosure for heavy duty applications involving relays and timers.

All purpose polycarbonate construction.

Suitable for activating class change or 'start work' signals.

TECHNICAL SPECIFICATION							
Coil Voltage	24V dc (mini)	12V dc	24V dc	230V ac			
Coil Current	22mA	100mA	50mA	30mA			
Contact Rating 240V ac	2A	6A	6A	6A			
Contact Rating 24V dc	3A	5A	5A	5A			
Profile	Low	High	High	High			
Max. Capacity	4 mini relays 2 base or relay/mini mixture						
Ingress Protection	IP67						
Operating Temperature	Indoor/Outdoor, 0 - 40°C						



ORDER CODES	
24V dc Relay c/w enclosure	19107-52
High Profile Enclosure	19100-02
Low Profile Enclosure	19100-12
24V dc Mini Relay	19102-52
24V dc Relay	19104-52
230V ac Relay	19104-55
24V dc Timer	19106-02
24V dc Pulsar	19106-03
12V dc Relay	19104-30

by Honeywell

To supply additional standby power for control panels or relays.

Protected against over-voltage and reverse polarity connections. Fault monitoring to comply with BS 5839.

#### 4: CONVENTIONAL FIRE DETECTION

## **Power Supplies**

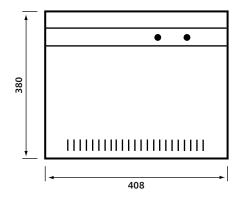


TECHNICAL SPECIFICATION				
Mains Input	230V ac	230V ac		
Output Current	6A	4A 1.25A		
Output Voltage	27.5V dc	27.6V dc		
Operating Temperature	-10° to +40°C	-10° to +50°C		
Max. Battery Capacity	2 x 12V/24Ah	2 x 12V/12Ah	2 x 12V/7Ah	
Approx Weight	8.5 Kg	12Kg 7.5Kg		

#### Power Supply Units (less cells)

**ORDER CODES** 

24V, 1.25A charger
continuous rating 0.625A 05211-24
24V, 4.0A charger
continuous rating 2.0A 05214-24
24V, 6.0A charger 05216-24





## Accessories

## GENT

#### by Honeywell

#### **Key Box**

A neat circular enclosure in which a key can be kept for use in emergencies.

Particularly suitable for buildings where there is a need for unsupervised emergency exits to be kept locked.

Accommodates keys up to 75mm long.

ORDER CODES	
Key Box	08205 - 00
10 Spare Glasses (Plain)	4144 - 007
10 Spare Glasses (Printed)	4144 - 088



#### **LED Call Point**

Integral LED, illuminating when call point is operated for ease of identification.

ORDER CODES		
Standard	14112 - 05	
Surface c/w cover	14112 - 45	



#### **Key Operated Call Point**

Preventing unauthorised operation for use in areas with a high risk of tampering or vandalism.

ORDER CODES	
Standard	14115 - 01



#### **General Purpose Call Point**

For other emergency systems such as poolside drowning alarms or chemical spillage warnings.

ORDER CODES	
Standard	14114 - 01
Surface c/w cover	14114 - 41



#### **Spares**

**Test Keys** For testing call points without breaking the glass.

**Weather Resistant Kit** Allowing a call point to be used externally, providing weather resistance to IP54.

**Semi-flush Spacing Kit** For part recessing call points.

ORDER CODES	
Pack of 10 Test Keys	14112 - 10
Weather Resistant Kit	14112 - 19
Semi-Flush Spacing Kit	14112 - 20
Pack of Ten Spare Glasses	14112 - 09EN





## Maximum System Loading

#### Zone Loading

To calculate the maximum zone loading complete the table below and ensure that the grand total does not exceed system limits (see pages 4 and 5).

	NO. (a)	QUIESCENT LOAD (µA) (b)	TOTAL LOAD (µA) (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 (see pages 4 and 5).

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

\*See tone table for specific operating currents.

#### Note

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