



ELMDENE

*Security & Fire
Products*

***Product
Range***



ELMDENE

Security & Fire
Products



INTRUDER



CCTV



ACCESS
CONTROL



FIRE

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*All dimensions in this brochure are approximate and
quoted in mm.*

Specifications subject to change without notice.

About Elmdene International

A Company You Can Rely On

Elmdene International Ltd was founded forty years ago in Portsmouth, UK to manufacture magnetic contacts for the security industry.

Today, Elmdene is a leading supplier of a wide range of electronic products to the Security, Fire, CCTV and Access control markets across Europe.

Elmdene's successful growth has been based upon our reputation for designing and manufacturing reliable products and providing our customers with a level of service and support to match their business needs.

The Company's presence is truly global with the business, design and UK manufacturing facilities at Portsmouth being complemented by a number of off-shore partners.

Our customers can depend upon our products to deliver the technical performance they expect with a level of service that enables effective control of their costs and to help plan their business more effectively.

A Company You Can Rely On



Service You Can Rely On

Elmdene is committed to providing the very highest standards in customer service and support.

Continually exploring how we can improve our service, our aim is to make doing business with Elmdene as easy as possible. We do this by talking to our customers, listening carefully to them and taking action.



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About Elmdene International

You can always rely on Elmdene's service. Whether you choose to speak with one of our office staff or meet one of our external Sales team, you are assisted in the same friendly and professional manner.

Advances in telecommunications and the Internet offer more choice in how we do business today.

The Internet allows our customers to choose from a menu of products and support services, and obtain these on-line. Elmdene will continue to set the standards for others to follow.

For the latest information about Elmdene, its products and services, please visit our website at www.elmdene.co.uk

Service You Can Rely On

Quality You Can Rely On

Elmdene has an unrelenting commitment to ensuring all its products are manufactured and tested to the highest of quality standards.



Our commitment to Continuous Improvement and explicit quality management has been recognised by BSI with our manufacturing and design facility at Portsmouth having achieved Certification to BS EN9000:2000.

As a supplier to international markets, our product design and manufacture is subject to strict standards that have been recognised and certified by VdS in Germany for EN54-4 Power Supply Equipment for the Fire Industry, NFa2p in France, NCP in Holland and INCERT in Belgium for magnetic contacts, external sirens, power supplies and detectors.

Elmdene products are subject to demanding in-house quality control tests.

All our products are supplied with a full manufacturing warranty and carry the CE mark.

Quality You Can Rely On



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Design You Can Rely On

From concept design to manufacture, Elmdene has an enviable track record for introducing products that have become established names within the Fire & Security Industry.

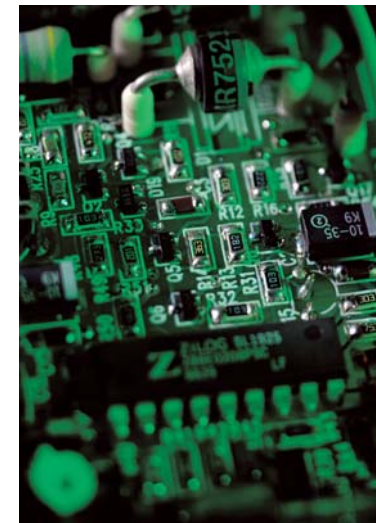
We recognise that the requirements of our customers are changing more quickly than ever as the industry develops at a rapid rate.

Elmdene's ability to respond to this challenge lies in our expertise both as a designer and manufacturer of equipment.

Our in-house design team play a key role in the success of our New Product Development programs, defining and delivering the next generation of products.

Through excellent design, Elmdene incorporates the latest technology in desirable products that are destined to become market leaders.

Design You Can Rely On



A Partner You Can Rely On

Elmdene is an international business with manufacturing operations in Europe and the Far East.

We are ideally positioned to supply competitively priced products that offer excellent value for money.

While aiming to continually reduce our customers' costs, the quality and reliability of our products is never compromised.

Become a partner with Elmdene today and let us invest in your business by supplying products that will help you win sales and grow your business..

A Partner You Can Rely On

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QUARTZ Range

External Sounders

The Quartz Range of external sirens feature a solid coloured Polycarbonate outer cover fitted over a polycarbonate backplate. The electronics module is protected by the polycarbonate backplate and internal cover. The PCB is conformally coated to withstand harsh environments.

All Sounders comply with the following standards:
PD 6662:20004, EN50131-1:2004, EN50130-4, EN61000-6-3

SPECIFICATION	3000	1000
Grade	3	3
Environmental Class	IV	IV
No of Piezo's	2	1
Sound Output (dbA at 1m)	115	112
Operating Voltage - Nominal	12V-dc	12V-dc
Siren Operating Current	130mA	130mA
Strobe Operating Current	100mA	100mA
Standby - Quiescent Current	17mA	17mA
Cut Off Timer	5secs/15 minutes	5secs/15 minutes
LED's	twin - flashing	twin - flashing
Silent Engineer Mode	yes	yes
Internal Battery	6V/300mAh-NiMH	6V/300mAh-NiMH
Replaceable Battery	yes	yes
Siren Trigger	neg	neg
Strobe Trigger	neg	neg
Strobe Flash Rate	1/sec	1/sec
Tamper Detection	cover/rear	cover/rear
Tamper Signal	neg	neg
Optional Foam Detection	n/a	n/a
Drill Detection	n/a	n/a
SAB/SCB	selectable	selectable
Piezo/battery status monitor	n/a	n/a
Fault Output	n/a	n/a
Choice of 4 Tones	n/a	n/a
Audible Tamper Closure	n/a	n/a

Base Plate	3mm polycarbonate	3mm polycarbonate
Inner Cover	3mm polycarbonate	3mm polycarbonate
Outer Cover	3mm polycarbonate	3mm polycarbonate
External Dimensions	320w x 280h x 65d	320w x 280h x 65d
Screen Printing Available	All Models	All Models

External Sounders
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MAXITEC Range

External Sounders

The Maxitec Range of external sirens feature a translucent coloured Polycarbonate outer cover fitted over a plastic or metal backplate. The electronics modules are protected by a polycarbonate inner cover and conformally coated to withstand harsh environments.

All Sounders comply with the following standards:
PD 6662:20004, EN50131-1:2004, EN50130-4, EN61000-6-3

SPECIFICATION	500M	500	500C
Grade	3	3	3
Environmental Class	IV	IV	IV
No of Piezo's	2	2	1
Sound Output (dbA at 1m)	118	118	112
Operating Voltage - Nominal	12V-dc	12V-dc	12V-dc
Siren Operating Current	200mA	200mA	200mA
Strobe Operating Current	100mA	100mA	100mA
Standby - Quiescent Current	40mA	40mA	40mA
Cut Off Timer	selectable	selectable	15 min or none
LED's	twin - selectable	twin - selectable	single - fixed
Silent Engineer Mode	yes	yes	n/a
Internal Battery	6V/300mA-NiMH	6V/300mA-NiMH	6V/170mNiCad
Replaceable Battery	yes	yes	yes
Siren Trigger	pos/neg	pos/neg	neg
Strobe Trigger	neg	neg	neg
Strobe Flash Rate	1/sec	1/sec	1/sec
Tamper Detection	cover/rear/module	cover/rear/module	cover/rear
Tamper Signal	pos / neg / vf	pos / neg / vf	neg
Optional Foam Detection	yes	yes	n/a
Drill Detection	n/a	n/a	n/a
SAB/SCB	sab	sab	sab
Piezo/battery status monitor	n/a	n/a	n/a
Fault Output	n/a	n/a	n/a
Choice of 4 Tones	n/a	n/a	n/a
Audible Tamper Closure	n/a	n/a	n/a

Base Plate	1.2mm Galvanised Steel	3mm polycarbonate	3mm polycarbonate
Inner Cover	1.2mm Galvanised Steel	3mm polycarbonate	ABS/Acrylic
Outer Cover	3mm polycarbonate	3mm polycarbonate	3mm polycarbonate
External Dimensions	320w x 280h x 65d	320w x 280h x 65d	320w x 280h x 65d
Screen Printing Available	All Models	All Models	All Models

External Sounders
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INTRUDER

VERTEC

Range

External Sounders

The Vertec Range of external sirens feature a solid-coloured Polycarbonate outer cover fitted over a backplate of either metal or plastic. The electronics modules are conformally coated to withstand harsh external environments.

All Sounders comply with the following standards:
PD 6662:20004, EN50131-1:2004, EN50130-4, EN61000-6-3

SPECIFICATION	5000	3000	1000
Grade	3	3	3
Environmental Class	IV	IV	IV
No of Piezo's	2	2	1
Sound Output (dbA at 1m)	118	118	112
Operating Voltage - Nominal	12V-dc	12V-dc	12V-dc
Siren Operating Current	200mA	200mA	200mA
Strobe Operating Current	100mA	100mA	100mA
Standby - Quiescent Current	40mA	40mA	40mA
Cut Off Timer	selectable	selectable	selectable
LED's	twin - selectable	twin - selectable	single - fixed
Silent Engineer Mode	yes	yes	yes
Internal Battery	6V/300mA-NiMH	6V/300mA-NiMH	6V/170mA-NiCad
Replaceable Battery	yes	yes	yes
Siren Trigger	pos/neg	pos/neg	neg
Strobe Trigger	neg	neg	neg
Strobe Flash Rate	1/sec	1/sec	1/sec
Tamper Detection	cover/rear/module	cover/rear/module	cover/rear
Tamper Signal	pos / neg / vf	pos / neg / vf	neg
Optional Foam Detection	yes	yes	n/a
Drill Detection	n/a	n/a	n/a
SAB/SCB	sab	sab	sab
Piezo/battery status monitor	n/a	n/a	n/a
Fault Output	n/a	n/a	n/a
Choice of 4 Tones	n/a	n/a	n/a
Audible Tamper Closure	n/a	n/a	n/a

Base Plate	1.2mm Galvanised Steel	3mm Polycarbonate	3mm Polycarbonate
Inner Cover	1.2mm Galvanised Steel	3mm Polycarbonate	ABS/Acrylic
Outer Cover	3mm Polycarbonate	3mm Polycarbonate	3mm Polycarbonate
External Dimensions	210w x 320h x 60d	210w x 320h x 60d	210w x 320h x 60d
Screen Printing Available	All Models	All Models	All Models

External Sounders
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HS 500

Range

External Sounders

The HS 500 Range of external sirens feature a translucent-coloured Polycarbonate outer cover fitted over a backplate of either metal or plastic. The electronics modules are conformally coated and designed to withstand harsh external environments.

All Sounders comply with the following standards:
PD 6662:20004, EN50131-1:2004, EN50130-4, EN61000-6-3

SPECIFICATION	500M	500	500C
Grade	3	3	3
Environmental Class	IV	IV	IV
No of Piezo's	2	2	1
Sound Output (dbA at 1m)	118	118	112
Operating Voltage - Nominal	12V-dc	12V-dc	12V-dc
Siren Operating Current	200mA	200mA	200mA
Strobe Operating Current	100mA	100mA	100mA
Standby - Quiescent Current	40mA	40mA	40mA
Cut Off Timer	selectable	selectable	selectable
LED's	twin - selectable	twin - selectable	single - fixed
Silent Engineer Mode	yes	yes	n/a
Internal Battery	6V/300mA-NiMH	6V/300mA-NiMH	6V/170mA-NiCad
Replaceable Battery	yes	yes	yes
Siren Trigger	pos/neg	pos/neg	neg
Strobe Trigger	neg	neg	neg
Strobe Flash Rate	1/sec	1/sec	1/sec
Tamper Detection	cover/rear/module	cover/rear/module	cover/rear
Tamper Signal	pos / neg / vf	pos / neg / vf	neg
Optional Foam Detection	yes	yes	n/a
Drill Detection	n/a	n/a	n/a
SAB/SCB	sab	sab	sab
Piezo/battery status monitoring	n/a	n/a	n/a
Fault Output	n/a	n/a	n/a
Choice of 4 Tones	n/a	n/a	n/a
Audible Tamper Closure	n/a	n/a	n/a

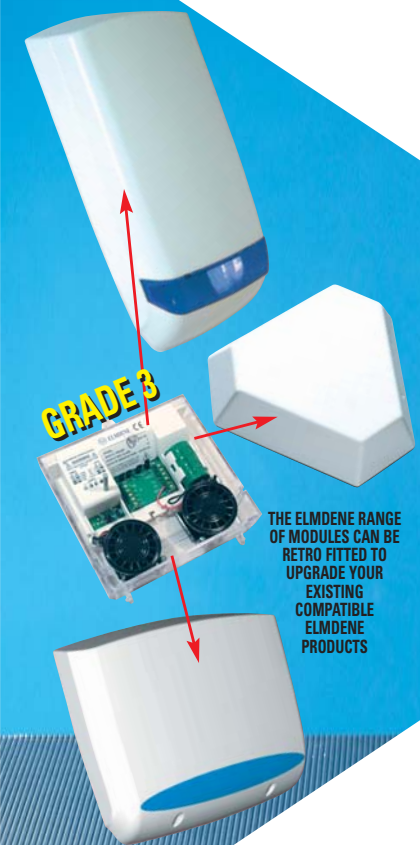
Base Plate	1.2mm Galvanised Steel	3mm polycarbonate	3mm polycarbonate
Inner Cover	1.2mm Galvanised Steel	3mm polycarbonate	ABS/Acrylic
Outer Cover	3mm polycarbonate	3mm polycarbonate	3mm polycarbonate
External Dimensions	330w x 290h x 70d	330w x 290h x 70d	330w x 290h x 70d
Screen Printing Available	All Models	All Models	All Models

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New Enhanced HS-VERTEC-MAXITEC Range External Sounders



THE ELMDENE RANGE OF MODULES CAN BE RETRO FITTED TO UPGRADE YOUR EXISTING COMPATIBLE ELMDENE PRODUCTS

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Enhanced Benefits

Module fits ALL 3 products
(Polycarbonate only)

EN 50131 Compliant

VERY Low Current (200mA)

Easy replaceable battery

Piezo & battery condition monitoring

SAB/SCB selection

Enhanced Features

- CHOICE OF 4 DIFFERENT TONES
- FAULT OUTPUT: USE WITH REMOTE MAINTENANCE
- REMOTE TEST FACILITY
- AUDIBLE SOUND INDICATION WHEN CLOSING TAMPERS
- AUDIBLE SOUND IF BATTERY IS NOT CONNECTED

All Sounders comply with the following standards:
PD 6662:20004, EN50131-1:2004, EN50130-4, EN61000-6-3

SPECIFICATION	HS 700 (M)	Vertec 7000 (M)	Maxitec 700 (M)
Grade	3	3	3
Environmental Class	IV	IV	IV
No of Piezo's	2	2	2
Sound Output (dBa at 1m)	120	120	120
Operating Voltage - Nominal	12V-dc	12V-dc	12V-dc
Siren Operating Current	100mA	100mA	100mA
Strobe Operating Current	100mA	100mA	100mA
Standby - Quiescent Current	17mA	17mA	17mA
Cut Off Timer	selectable	selectable	selectable
LED's	twin - selectable	twin - selectable	twin - selectable
Silent Engineer Mode	yes	yes	yes
Internal Battery	6V/300mA-NiMH	6V/300mA-NiMH	6V/300mA-NiMH
Replaceable Battery	yes	yes	yes
Siren Trigger	neg	neg	neg
Strobe Trigger	neg	neg	neg
Strobe Flash Rate	1/sec	1/sec	1/sec
Tamper Detection	cover/rear/module	cover/rear/module	cover/rear/module
Tamper Signal	pos / neg / vf	pos / neg / vf	pos / neg / vf
Optional Foam Detection	yes	yes	yes
Drill Detection	n/a	n/a	n/a
SAB/SCB	yes	yes	yes
Piezo/battery status monitoring	yes	yes	yes
Fault Output (remote maintenance)	yes	yes	yes
Choice of 4 Tones	yes	yes	yes
Audible Tamper Closure	yes	yes	yes
Base Plate	Polycarbonate (Galvanised steel)	Polycarbonate (Galvanised steel)	Polycarbonate (Galvanised steel)
Inner Cover	Polycarbonate (Galvanised steel)	Polycarbonate (Galvanised steel)	Polycarbonate (Galvanised steel)
Outer Cover	3mm polycarbonate	3mm polycarbonate	3mm polycarbonate
External Dimensions	330w x 290h x 70d	210w x 320h x 60d	320w x 280h x 65d
Screen Printing Available	All Models	All Models	All Models



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RAPIER

Range

External Sounders

The Rapier range of high quality sirens features Stainless Steel covers and Galvanised Steel backplates. The electronics modules are conformally coated and designed to withstand harsh external environments.

All Sounders comply with the following standards:
PD 6662:20004, EN50131-1:2004, EN50130-4, EN61000-6-3

SPECIFICATION	2000	4000	6000
Grade	4	3	3
Environmental Class	IV	IV	IV
No of Piezo's	2	2	2
Sound Output (dbA at 1m)	118	118	118
Operating Voltage - Nominal	12V-dc	12V-dc	12V-dc
Siren Operating Current	350mA	350mA	350mA
Strobe Operating Current	150mA	150mA	150mA
Standby - Quiescent Current	78mA	78mA	78mA
Cut Off Timer	5s/15 min	5s/15 min	5s/15 min
LED's	twin	twin	twin
Silent Engineer Mode	yes	yes	yes
Internal Battery	12V/900mA NiCad	12V/300mA NiMH	12V/300mA NiMH
Replaceable Battery	yes	yes	yes
Siren Trigger	pos/neg	pos/neg	pos/neg
Strobe Trigger	neg	neg	neg
Strobe Flash Rate	1/sec	1/sec	1/sec
Tamper Detection	cover/rear/module	cover/rear/module	cover/rear/module
Tamper Signal	pos / neg / vf	pos / neg / vf	pos / neg / vf
Optional Foam Detection	n/a	n/a	n/a
Drill Detection	yes	n/a	n/a
SAB/SCB	sab	sab	sab
Piezo/battery status monitor	n/a	n/a	n/a
Fault Output	n/a	n/a	n/a
Choice of 4 Tones	n/a	n/a	n/a
Audible Tamper Closure	n/a	n/a	n/a
Base Plate	1.2mm Galvanised Steel	1.2mm Galvanised Steel	1.2mm Galvanised Steel
Inner Cover	1.2mm Galvanised Steel	1.2mm Galvanised Steel	1.2mm Galvanised Steel
Outer Cover	1.2mm Stainless Steel	White Coated Stainless Steel	1.2mm Stainless Steel
External Dimensions	340 x 220 x 55	340 x 220 x 55	340 x 220 x 55
Screen Printing Available	All Models	All Models	All Models

External Sounders
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SOUNDA

Range

External Sounders

The Sounda siren features a solid Polycarbonate outer cover and backplate. The electronics modules are conformally coated and designed to withstand harsh external environments.

All Sounders comply with the following standards:
PD 6662:20004, EN50131-1:2004, EN50130-4, EN61000-6-3

SPECIFICATION	Sounda
Grade	3
Environmental Class	IV
No of Piezo's	1
Sound Output (dbA at 1m)	106
Operating Voltage - Nominal	12V-dc
Siren Operating Current	200mA
Strobe Operating Current	100mA
Standby - Quiescent Current	45mA
Cut Off Timer	15 min
LED's	single
Silent Engineer Mode	n/a
Internal Battery	6V/300mA-NiMH
Replaceable Battery	yes
Siren Trigger	neg
Strobe Trigger	neg
Strobe Flash Rate	1/sec
Tamper Detection	cover/rear
Tamper Signal	neg
Optional Foam Detection	n/a
Drill Detection	n/a
SAB/SCB	sab
Piezo/battery status monitor	n/a
Fault Output	n/a
Choice of 4 Tones	n/a
Audible Tamper Closure	n/a
Base Plate	3mm Polycarbonate
Inner Cover	n/a
Outer Cover	3mm Polycarbonate
External Dimensions	315 x 215 x 65
Screen Printing Available	All Models

External Sounders
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STARLIGHT Range

External Sounders

The Starlight range of sirens features a solid Polycarbonate outer cover and backplate. The electronics modules are conformally coated and designed to withstand harsh external environments.

All Sounders comply with the following standards:
PD 6662:20004, EN50131-1:2004, EN50130-4, EN61000-6-3

SPECIFICATION	020E	2000	3000
Grade	3	3	3
Environmental Class	IV	IV	IV
No of Piezo's	1	2	2
Sound Output (dbA at 1m)	105	118	118
Operating Voltage - Nominal	12V-dc	12V-dc	12V-dc
Siren Operating Current	400mA	350mA	200mA
Strobe Operating Current	100mA	150mA	100mA
Standby - Quiescent Current	45mA	45mA	45mA
Cut Off Timer	15 min	15 min	selectable
LED's	single	twin	twin selectable
Silent Engineer Mode	n/a	n/a	yes
Internal Battery	6V/300mA-NiMH	12V/300mA-NiMH	6V/300mA-NiMH
Replaceable Battery	n/a	n/a	yes
Siren Trigger	pos/neg	pos/neg	pos/neg
Strobe Trigger	neg	neg	neg
Strobe Flash Rate	1/sec	1/sec	1/sec
Tamper Detection	cover/rear	cover/rear	cover/rear
Tamper Signal	neg	pos / neg / vf	pos / neg / vf
Optional Foam Detection	n/a	n/a	n/a
Drill Detection	n/a	n/a	n/a
SAB/SCB	sab	sab	sab
Piezo/battery status monitor	n/a	n/a	n/a
Fault Output	n/a	n/a	n/a
Choice of 4 Tones	n/a	n/a	n/a
Audible Tamper Closure	n/a	n/a	n/a

Base Plate	3mm	3mm	3mm
	Polycarbonate	Polycarbonate	Polycarbonate
Inner Cover	n/a	n/a	n/a
Outer Cover	3mm	3mm	3mm
	Polycarbonate	Polycarbonate	Polycarbonate
External Dimensions	315 x 215 x 65	315 x 215 x 65	315 x 215 x 65
Screen Printing Available	All Models	All Models	All Models

External Sounders
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PRIMA Range

External Sounders

The Prima range of sirens features a solid Polycarbonate outer cover and backplate. The electronics modules are conformally coated and designed to withstand harsh external environments.

All Sounders comply with the following standards:
PD 6662:20004, EN50131-1:2004, EN50130-4, EN61000-6-3

SPECIFICATION	100	200	400	500
Grade	ungraded	ungraded	3	3
Environmental Class	IV	IV	IV	IV
No of Piezo's	1	2	2	2
Sound Output (dbA at 1m)	108	115	113	118
Operating Voltage - Nominal	12V-dc	12V-dc	12V-dc	12V-dc
Siren Operating Current	250mA	300mA	25mA	200mA
Strobe Operating Current	150mA	150mA	25mA	100mA
Standby - Quiescent Current	n/a	40mA	50mA	40mA
Cut Off Timer	n/a	n/a	5s/15 min	selectable
LED's	single	twin	twin	twin selectable
Silent Engineer Mode	n/a	n/a	yes	yes
Internal Battery	n/a	12V/300mA	12V/300mA	12V/300mA
		NiMH	NiMH	NiMH
Replaceable Battery	n/a	n/a	n/a	yes
Siren Trigger	neg	pos/neg	pos/neg	pos/neg
Strobe Trigger	neg	neg	neg	neg
Strobe Flash Rate	1/sec	1/sec	1/sec	1/sec
Tamper Detection	cover/rear	cover/rear	cover/rear	cover/rear
Tamper Signal	neg	pos / neg / vf	pos / neg / vf	pos / neg / vf
Optional Foam Detection	n/a	n/a	n/a	n/a
Drill Detection	n/a	n/a	n/a	n/a
SAB/SCB	n/a	sab	scb	sab
Piezo/battery status monitor	n/a	n/a	n/a	n/a
Fault Output	n/a	n/a	n/a	n/a
Choice of 4 Tones	n/a	n/a	n/a	n/a
Audible Tamper Closure	n/a	n/a	n/a	n/a

Base Plate	3mm	3mm	3mm	3mm
	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Inner Cover	n/a	n/a	n/a	n/a
Outer Cover	3mm	3mm	3mm	3mm
	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
External Dimensions	320h x 185w x 50d	320h x 185w x 50d	320h x 185w x 50d	320h x 185w x 50d
Screen Printing Available	All Models	All Models	All Models	All Models

External Sounders
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EURO SIREN Range

External Sounder

A European style siren of Stainless Steel (inox) construction. Comprising Front cover, Inner cover, totally enclosed conformally coated Electronic module, High quality speaker and Backplane.

The siren has a state of the art electronics module with very low power consumption. The electronics module is designed for ease of replacement and set up during commissioning.

All Sounders comply with the following standards:
INCERT: B-676-002

SPECIFICATION	5000
Grade	n/a
Environmental Class	IV
Speakers	1
Sound Output (dbA at 1m)	120
Operating Voltage - Nominal	12V-dc
Siren Operating Current	400mA
Strobe Operating Current	100mA
Standby - Quiescent Current	17mA
Cut Off Timer	5secs/8 minutes
LED's	n/a
Silent Engineer Mode	n/a
Internal Battery	12V/2.1 or 7Ah lead acid (not supplied)
Replaceable Battery	yes
Siren Trigger	neg
Strobe Trigger	neg
Strobe Flash Rate	1/sec
Tamper Detection	cover/rear
Tamper Signal	neg
Optional Foam Detection	n/a
Drill Detection	n/a
SAB/SCB	Direct or SCB
Piezo/battery status monitor	n/a
Fault Output	n/a
Choice of 4 Tones	n/a
Audible Tamper Closure	n/a
Base Plate	1.2mm Stainless Steel
Inner Cover	1.2mm Stainless Steel
Outer Cover	1.2mm Stainless Steel
External Dimensions	185w x 260h x 90d
Screen Printing Available	yes



External Sounders
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SI500 Range

Internal Sounder

European style all steel construction, high performance siren suitable for internal use. Conformally coated electronics allow it to be used in a wide variety of environments up to light industrial situations.

The unit is ideal for distributed (zonal) warning of alarms and has a high sound output.

All Sounders comply with the following standards:
NFa2P. EN50131-1:1997. INCERT

SPECIFICATION	
Grade	3
Environmental Class	II
Siren Output (dbA at 1m)	116
Kepad/Exit Tone Output (dB)	n/a
Operating Voltage - Nominal	12V-dc
Siren Operating Current	1.3A
Kepad/Exit Tone Current	n/a
Strobe Operating Current	n/a
Standby - Quiescent Current	5mA
Cut Off Timer	15/30 min
Internal Battery (not supplied)	12V/2.1Ah lead acid
Replaceable Battery	yes
Siren Trigger	neg
Kepad/Exit Tone Trigger	n/a
Strobe Trigger	n/a
Strobe Flash Rate	n/a
Tamper Detection	yes
Tamper Signal	yes
SAB/SCB	SAB
Cover & Backplate	1.2mm steel
External Dimensions (mm)	192w x 183h x 55d
Screen Printing Available	n/a



Internal Sounders
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**ELMDENE**Security & Fire
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'INTER' Range

Internal Sounders

All Elmdene sirens comply with the latest Regulations and are suitable for use in Grade 3 systems.
Environmental class II.

All Sounders comply with the following standards:
PD 6662:20004, EN50131-1:2004, EN50130-4, EN61000-6-3

SPECIFICATION	400(S)	500(S)	600(S)	ELM 300
Grade	3	3	3	3
Environmental Class	II	II	II	II
Siren Output (dbA at 1m)	120	120	120	100
Kepad/Exit Tone Output (dB)	n/a	80	80	n/a
Operating Voltage - Nominal	12V-dc	12V-dc	12V-dc	12V-dc
Siren Operating Current	260mA	260mA	260mA	80mA
Kepad/Exit Tone Current	n/a	80mA	80mA	n/a
Strobe Operating Current	n/a	100mA	n/a	n/a
Standby - Quiescent Current	15mA (19mA)	15mA (19mA)	15mA (19mA)	19mA
Cut Off Timer	15 min	15 min	15 min	10 min
Internal Battery - 'S' versions	6V/150mA-NiMH	6V/150mA-NiMH	6V/150mA-NiMH	2 x 6V/300mA NiMH
Replaceable Battery ('S' versions)	yes	yes	yes	no
Siren Trigger	neg	neg	neg	pos/neg
Kepad/Exit Tone Trigger	n/a	neg	neg	n/a
Strobe Trigger	n/a	neg	n/a	n/a
Strobe Flash Rate	n/a	1/sec	n/a	n/a
Tamper Detection	cover/rear	cover/rear	cover/rear	cover/rear
Tamper Signal	neg	neg	neg	v/f
SAB/SCB 'S' versions	sab	sab	sab	scb

Cover & Backplate	3mm Polycarbonate	3mm Polycarbonate	3mm Polycarbonate	1.2mm steel
External Dimensions (mm)	110w x 160h x 40d	110w x 160h x 40d	110w x 160h x 40d	170w x 225h x 50d
Screen Printing Available	yes	N/A	yes	yes

Internal Sounders
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INTRUDER

**ELMDENE**Security & Fire
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'EN' Range

12 Volt dc Power Supply Units EN50131 GRADES 2 - 4

The EN range of power supplies have been specifically designed to provide a comprehensive and flexible range of options for installation engineers designing intruder systems from Grades 2 to 4 under PD6662: 2004 / EN50131, with built in quality and reliability.

A range of box sizes is available to suit your choice of battery. Communication devices can be accommodated in a 'B' size box when used with a 7 or 8Ah battery.

Environmental class II.

Features Summary

- Comprehensive Battery Management:
 - Battery Deep Discharge Protection.
 - Intelligent battery fault detection on Grade 3 and 4.
 - Reverse battery connection protection.
 - High efficiency 3 stage battery charging on larger battery models.
 - Double battery models have separate battery charging and monitoring circuits.
- Fully EN50131 Compliant Fault Outputs:
 - EPS Fault (Mains Fault)
 - APS Fault (Battery Fault)
 - PSU Fault
- High security tamperers:
 - Lid and rear tamper Grade 3, lid tamper Grade 2.
 - Anti-drill on Grade 4 models.
- Robust circuit protection:
 - Output overload and short circuit protection.
 - Auto reset electronic output & battery fuses.
 - Transformer thermal fuse.
 - Mains input fuse.
 - Mains transient suppression.
 - Mains brownout filter.

Grade 2, 3, 4 EN Model	Battery Options	Power Supply Maximum Output Current	PD6662 / EN50131-1:2004 Maximum Output - 12 Hours	Case Size
07	1 x 7 or 8Ah	1.0A	580 or 660mA	A or B
17	1 x 17 or 18Ah	1.5A	1.4 or 1.5A	B or C
34	2 x 17 or 18Ah	3.0A	2.8 or 3.0A	R

Box Size A 200mm high x 230mm wide x 80mm deep - Hinged lid
 Box Size B 330mm high x 355mm wide x 80mm deep - Clam lid
 Box Size C 275mm high x 330mm wide x 80mm deep - Hinged lid
 Box Size R 410mm high x 390mm wide x 80mm deep - Clam lid
 All enclosures are 1.2mm powder coated steel, white. Box sizes approximate.

Product code for a given power supply is made up of 3 elements:

- Grade
- Battery Capacity
- Box Size

Example: For a grade 3 power supply with 17Ah battery capacity in case size 'C'.
The product code will be EN3-17-C

Power Supply Units
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'GEMINI' Range

12 Volt dc Power Supply Units

Mains supply	230Vac +10% / -15%, 50Hz
Nominal Output Voltage	13.8Vdc
Max continuous load current, output 1	1, 2, & 3 A
Max continuous load current, output 2	1A
Output Ripple	<10mV maximum at nominal input voltage
Recommended Battery Size (Batteries not supplied)	2 x 7 Ah 12v sealed lead acid
Standby battery facility	✓
Standby battery charge limiting	✓
Battery Deep Discharge protection	✓
Optional Output Splitter module	✓
Visual Fault Indicator (LED)	1 each for each output
Fault relay for remote signalling	1 each for each output
Output fuse protection	✓
Battery fuse protection	✓
Reverse battery connection protection	✓
EN 60950:2000 compliant	✓
EN 50130-4:1996, EN 61000-6 compliant	✓
Case B	(330h x 355w x 80d - clam) 1A & 2A
Case D	(500h x 400w x 80d - hinge) 3A
Case material	1.2mm powder coated steel, white
Case IP Rating	IP41 excluding rear face and Clam Shell cases
Typical Applications	Access Control General Purpose

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Unboxed 'N' - Range

12 Volt Power Supply Units

Model	Rated Output (A)	Maximum Output* (A)	Chassis Dimensions (mm)
1381NSU	1	1.5	220L x 160W x 80H
1381NU	1	1.5	220L x 160W x 80H
1382NU	2	2.5	220L x 160W x 80H
1383NU	3	3.5	220L x 160W x 80H
1385NU	5	5.5	310L x 190W x 80H

* Including battery Charging

Battery Monitor: Detects battery fuse blown

Battery Charging Indicators: Mains LED (green) indicates that mains is connected.
Extinguishes if disconnected from mains or mains input fuse is blown.
Battery Stand-by LED (amber) indicates that unit is operating on battery stand-by.
Output Fault (red) indicates that output fuse fault or battery fuse fault. Further LED (red) on PCB shows battery fuse failure.

Mains Supply: 230V + 10%, 50-60 Hz

Load Output: 1A, 2A, 3A or 5A @ 13.8V dc with rechargeable battery fitted

Load Voltage Regulation: 5% maximum

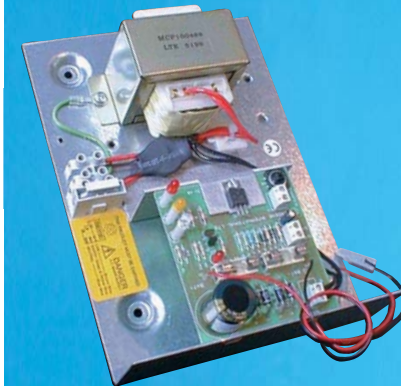
Output Ripple: 50mV rms maximum

Maximum Battery Size: 1 x 7 Ah 12V Lead Acid for 1A, 2A and 3A
1 x 17 Ah 12V Lead Acid for 5A
(Batteries not supplied)

Environment: -10 C to 40 C at up to 95% RH

Chassis Material: Galvanised Steel (1.2mm)

Fuses: Mains, Load, Battery



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'N' - Range

12 Volt Power Supply Units

Model	Rated Output (A)	Maximum Output* (A)	Box Size (mm)	
1381LN	1	1.5	185h x 200w x 55d	hinge lid
1381NS	1	1.5	200h x 230w x 80d	hinge lid
1381N	1	1.5	200h x 230w x 80d	hinge lid
1381SN	1	1.5	380h x 230w x 75d	hinge lid
1382N	2	2.5	200h x 230w x 80d	hinge lid
1383N	3	3.5	330h x 355w x 80d	clam shell
1385N	5	5.5	330h x 355w x 80d	clam shell

* Including battery Charging

Battery Monitor: Detects battery fuse blown

Battery Charging Indicators: Mains LED (green) indicates that mains is connected. Extinguishes if disconnected from mains or mains input fuse is blown.

Battery Stand-by LED (amber) indicates that unit is operating on battery stand-by.

Output Fault (red) indicates that output fuse fault or battery fuse fault. Further LED (red) on PCB shows battery fuse failure.

Mains Supply: 230V + 10%, 50-60 Hz

Load Output: 1A, 2A, 3A or 5A @ 13.8V dc with rechargeable battery fitted

Load Voltage Regulation: 5% maximum

Output Ripple: 50mV rms maximum

Maximum Battery Size: 1 x 7 Ah 12V Lead Acid for 1A, 2A and 3A (Batteries not supplied) 1 x 17 Ah 12V Lead Acid for 5A

Environment: -10°C to 40°C at up to 95% RH

Box Material: 1.2mm powder coated steel

Lid: Tamper

Fuses: Mains, Load output, Battery

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'1380' Range

12 Volt Power Supply Units, High Performance (FS) and Standard Range

SPECIFICATION	Standard	High Performance FS Range
Nominal Output Voltage	13.8v dc	13.8v dc
Max Continuous Load Current	1*, 2*, 3*, & 4*	1, 2, 3 & 5A
Standby Battery Facility	All	All
Standby Battery Charge Limiting	All	All
Standby Battery Bulk Charging	-	5A
Deep Discharge Protection	2, 3 & 4A	All
Standby Battery Monitoring	-	5A
Optional Output Splitter Module	2, 3, 4A	3, 4, 5A
Visual Fault Indicator (Multi LED)	All	All
Fault Relay for remote signalling	-	All
Output Fuse Protection	All	All
Tamper - Front	All	All
Tamper - Rear	All	All
EN 60950:2000 Compliant	All	All
EN 50130-4:1996, EN 50081-1:1992 Compliant	All	All
Case A (230x200x80mm) Hinge lid	2A (1390AC)	1 & 2A
Case B (355x330x80mm) Clam shell	2, 3 & 4A	All
Case C (330x275x80mm) Hinge lid	-	1 & 2A
Case I (260x310x90mm) Clam shell	1A (1381)	-
Typical Applications	General Purpose Access Control CCTV	General Purpose Access Control CCTV

*Derate available output to load by up to 1.0A to charge standby battery

*Derate available output current to load by up to 0.5A to charge standby battery

Mains Supply: 230Vac + 10%, -15%, 50 Hz

Output Ripple: 50mV rms maximum at nominal input voltage

Recommended Battery Size: 1 x 7 Ah 12v Lead Acid for 1A, and 2A (Batteries not supplied) 1 x 17 Ah 12v Lead Acid for 3A, 4A and 5A

Environment: -10°C to 40°C at up to 95% RH

Box Material: 1.2mm powder coated steel, white

Box Rating: IP41 excluding rear face and Clam Shell cases

Power Supply Units you can rely on



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'GN'

Range

Switch Mode Power Supply Units

High efficiency cost effective range of power supplies for use in Access Control, CCTV and general PSU applications.

Featuring a regulated highly stable output supplying a full rated current to load and a universal mains voltage input (90 to 264 Volts a.c.)

Note: FOM 4 or FOM 8 Module can be fitted to give 4 or 8 independent fused outputs (See Ancillaries section).

12 Volt Units

Model	Rated Output* (A)	Box Size (mm)
**G1381N-A	1	200hx230wx80d
**G1382N-A	2	200hx230wx80d
**G1383N-C	3	275hx330wx80d
G1384N-C	4	275hx330wx80d
**G1385N-C	5	275hx330wx80d
**G13810N-C	10	275hx330wx80d

24 Volt Units

Model	Rated Output* (A)	Box Size (mm)
**G2401BM-C	1	275hx330wx80d
**G2402BM-C	2	275hx330wx80d
**G2403BM-C	3	275hx330wx80d
**G2405BM-C	5	275hx330wx80d

*Additional current available to charge standby battery.

Specification

Output Specification	12V Unit	24V Unit
Voltage (On mains power):	13.6 – 14.2V dc	27.2 – 28.4V dc
Current:	1,2,3,4,5 & 10	1,2,3 & 5
Input Specification		
Mains Supply:	90 – 264V a.c. 50-60Hz.	90 – 264V a.c. 50-60Hz

Status Indication

Mains Present Indicator: Green LED indicates the presence of mains supply, extinguished on loss of mains.

Standby Battery

Battery Capacity:	1 x 12V, 7Ah VRLA.	2 x 12V, 7Ah VRLA.
Recharge Time:	-----24 hours to 80% from total discharge-----	
Battery Fuse Protection:	Electronic.	Electronic.

Note: Standby batteries not supplied.

Environmental

Temperature:	-10o to +40o C (operating) 95% RH non-condensing.
Box Material:	1.2mm powder coated steel.
Tamper Protection:	Lid

** These units will become available during 2007

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'2400' Range

24 Volt Power Supply Units, High Performance (PT), Battery Monitored (BM), Standard Range and Door Release Units (TR)

SPECIFICATION	Standard	Battery Monitored (BM)	High Performance (PT)	Door Release (TR)
Nominal Output Voltage	27.6v dc	27.6v dc	27.6v dc	24v dc
Max Continuous Output Current	1, 2, 3 & 5A	1*, 2*, 3* & 5A	1, 3 & 5A	2 & 4A
Visual Fault Indicator (Multi LED)	All	All	All	All
Fault Relay for remote signalling	-	All	All	-
Output Fuse Protection	All	All	All	All
Standby Battery Facility	All	All	All	-
Standby Battery Charge Limiting	All	All	All	-
Standby Battery Bulk Charging	-	-	All	-
Deep Discharge Protection	All	All	All	-
Standby Battery Monitoring	-	All	All	-
Remote Control of Output	-	-	-	All
Optional Output Splitter Module	All	All	All	All
EN 54-4:1998 Compliant**	-	-	All	-
EN 60950:2000 Compliant	All	All	All	All
EN 50130-4:1996, EN 50081-1:1992 Compliant	All	All	All	All
Case A (230 x 200 x 80mm) hinge lid	-	-	-	All
Case C (330 x 275 x 80mm) hinge lid	All	All	-	-
Case E (420 x 400 x 80mm) hinge lid	-	-	All	-
Case H (420 x 400 x 140mm) hinge lid	option	option	option	-

Typical Applications	Fire Control Panel Access Control General Purpose	Fire Control Panel Access Control Battery Managed	EN 54-4 Compliant Fire Control Panel	Access Control
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*Derate available output current to load by up to 0.5A to charge standby battery

**VdS Certificate No. G203054

Mains Supply:	230V ac + 10%, -15%, 50 Hz
Output Ripple:	50mV rms maximum at nominal input voltage
Recommended Battery Size:	2 x 7 Ah 12v Lead Acid for 1A, 2A and 3A
(Batteries not supplied)	2 x 17 Ah 12v Lead Acid for 4A and 5A
	2 x 24 Ah 12v Lead Acid for Case H
Environment:	-10°C to 40°C at up to 95% RH
Box Material:	1.2mm powder coated steel, white
Box Rating:	IP41 excluding rear face



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Products



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FIRE

'VISION' Range

12 Volt dc Power Supply Units 24 Volt ac & dc Power Supply Units

Model	Output Voltage	Maximum Output Current	Fused Output	Mains Supply	Case	Lid Type	BS EN 60950 Approved
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12 Volt dc Power Supplies - Linear

VR12500EB / EE	12V	500mA	No	230V	Encapsulated 100x70x60	N/A	Yes
VR121000EB / EE	12V	1.0A	No	230V	Encapsulated 100x70x60	N/A	Yes
VR1215	12V	1.5	1 x 1.5A	230V	Metal (L) 100x150x65	Clam	Yes

12 Volt dc Power Supplies - Switch Mode

VRS12500EB / EE	12V	0.5A	No	100 - 253V	Encapsulated 65x45x25	N/A	Yes
VRS121000EB / EE	12V	1.0A	No	100 - 253V	Encapsulated 65x45x25	N/A	Yes
VRS124000 - 4	12V	4.0A	4 x 1A	100 - 253V	Metal (A) 200x230x80	Hinge	Yes
VRS124000 - 8	12V	4.0A	8 x 0.5A	100 - 253V	Metal (A) 200x230x80	Hinge	Yes

24 Volt dc Power Supplies - Switch Mode

VRS24500EE	24V	0.5A	No	100 - 253V	Encapsulated 65x45x25	N/A	Yes
VRS241000EB / EE	24V	1.0A	No	100 - 253V	Encapsulated 65x45x25	N/A	Yes

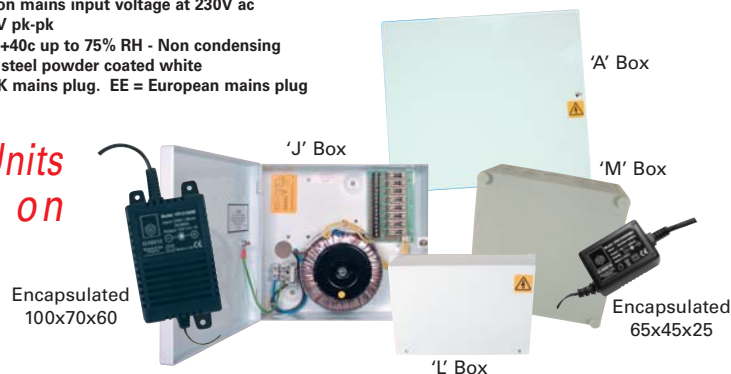
24 Volt ac Power Supplies

VR24500EB / EE	22-29V	500mA	No	230V	Encapsulated 100x70x60	N/A	Yes
VR241000EB / EE	22-29V	1.0A	No	230V	Encapsulated 100x70x60	N/A	Yes
VR2410	23-28V	1.0A	1 x 1.0A	230V	Metal (L) 100x150x65	Clam	Yes
VR2420	23-28V	2.0A	1 x 2A	230V	Metal (L) 100x150x65	Clam	Yes
VR2420-4	23-28V	2.0A	4 x 0.5A	230V	Metal (L) 100x150x65	Clam	Yes
VR2440	23-28V	4.0A	1 x 4A	230V	Metal (J) 185x200x55	Hinge	Yes
VR2440-4	23-28V	4.0A	4 x 1.0A	230V	Metal (J) 185x200x55	Hinge	Yes
VR2440-8	23-28V	4.0A	8 x 0.5A	230V	Metal (J) 185x200x55	Hinge	Yes
VR2460-4	23-28V	6.0A	4 x 1.5A	230V	Metal (J) 185x200x55	Hinge	Yes
VR2440-4P	23-28V	4.0A	4 x 1A	230V	Plastic IP66 (M) 180x182x90	N/A	Yes
VR2460-P	23-28V	6.0A	4 x 1.5A	230V	Plastic IP66 (M) 180x182x90	N/A	Yes

VR-Adapt21 DC Plug Adapter 2.5mm to 2.1mm for Encapsulated Power Supplies

Output Voltage Based on mains input voltage at 230V ac
Output Ripple - dc units <100mV pk-pk
Environment -10c to +40c up to 75% RH - Non condensing
Metal Box Units 1.2mm steel powder coated white
Encapsulated Units EB = UK mains plug. EE = European mains plug

*Power Supply Units
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SPYDER EL & EL+C

The Spyder EL & Spyder EL+C are state of the art vibration and shock-sensing devices for protection of commercial and domestic properties.

The Spyder EL has been designed to meet all requirements for installation under EN50131 and is suitable for use at Grade 3 / Environmental Class II.

The Spyder EL+C has been designed primarily for use in Europe and features an integrated Magnetic Contact; this unit is also rated at Environmental Class II.

• Sensitivity Ranges

A high or low sensitivity range may be selected to enable the Spyder to be used in a wide range of installations, each having their own particular vibration transmission characteristics. An onboard 'pot' enables continuously variable sensitivity within each range and also provides a simple visual indication of the sensitivity selected.

• Sustain Mode

With this option selected the Spyder will only signal a valid alarm event when it has detected a series of vibrations. This improves tolerance to shock events that are not valid alarms e.g. bird impacts.

• First Unit Triggered

Using the multi-unit synchronisation mode, multiple Spydres can be grouped to a single zone or circuit with the facility to indicate the first unit to detect an alarm event with a pulsing LED and subsequent units triggered having a steady LED indication.

• Set / Unset Mode

The Spyder's LED indication may be controlled by the 'Set' output of a Control Panel, thereby enabling automatic reset of any previously detected and latched alarm conditions. Where the 'Set' output is not used the unit will operate as a normal non-latched detector.

• Latch Operation

When selected the Spyder will display a flashing LED if a valid alarm has been detected since the previous Unset to Set transition. The LED will continue to display the alarm event even when the alarm relay output has closed after the shock has terminated.

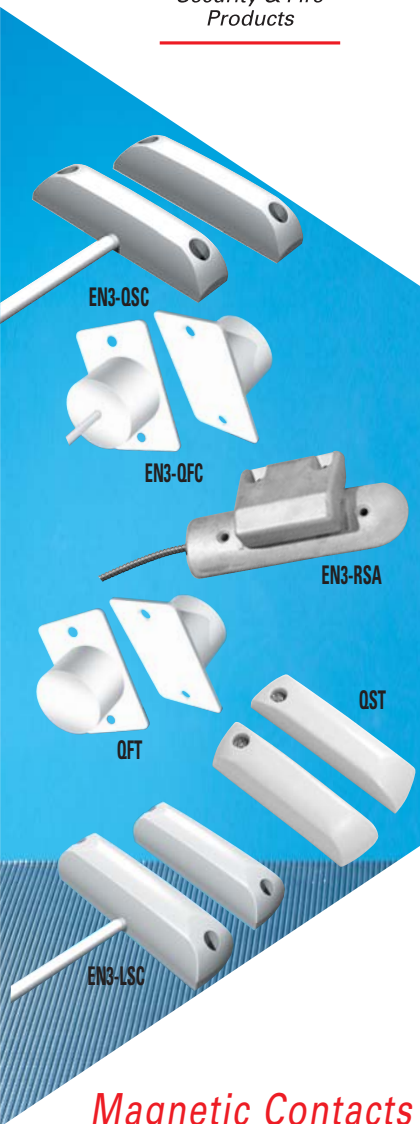
• Discrete Mode

When selected the Spyder LED will remain off even under conditions of a valid alarm.

SPECIFICATION	SPYDER EL	SPYDER EL+C
PD6662:2004 +A1+A2/	GRADE 3	N/A
PREN50131-1:2004		
ENVIRONMENTAL CLASS	II	II
SUPPLY	12V DC NOMINAL	12V DC NOMINAL
CURRENT	7MA QUIESCENT, 10MA ALARM	7MA QUIESCENT, 10MA ALARM
ALARM CONTACT	60V DC @ 100MA	60V DC @ 100MA
ALARM CONTACT RESISTANCE	16 OHMS MAXIMUM	16 OHMS MAXIMUM
TAMPER CONTACT	12V DC @ 50MA	12V DC @ 50MA
TAMPER RESISTANCE	100 M-OHMS MAXIMUM	100 M-OHMS MAXIMUM
CONTACT MINIMUM	N/A	21MM
CLOSING GAP	N/A	
DIMENSIONS (MM): SPYDER	93L X 25W X 27H	93L X 25W X 27H
MAGNET	N/A	48L X 14W X 13H
WEIGHT: SPYDER	30 GRAMS	30 GRAMS
MAGNET	N/A	15 GRAMS

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*Magnetic Contacts
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INTRUDER



ACCESS
CONTROL

Magnetic Contacts

Range and Grading

Elmdene has an extensive range of high quality Magnetic Contacts providing a choice of both Surface and Flush mounting, with options of 'Cabled' or 'Terminal' Contacts within these ranges.

Our Magnetic Contacts are Graded with respect to PD6662:2004 +A1 +A2 / DD CLC/TS50131-2-6 with options available at Grades 1, 2 and 3.

Terminal Contacts

'Terminal' Contacts are Environmental Class II and available in both Surface & Flush fitting and are supplied fitted with resistors of your choice for use in FSL systems and in most cases can also be used in Double Pole systems (check specification). Terminal Contacts benefit from a quality spring action micro switch providing reliable tamper protection.

Cabled Contacts

'Cabled' Contacts are Environmental Class III and are also available in both Surface and Flush fitting and are potted providing life long protection against the ingress of moisture, most are available in 4 or 6 wire versions.

4 wire Contacts are suitable for use in double pole systems, whereas 6 wire Contacts (patent pending) include integral resistors for use in FSL systems but with the added benefit that they can still be used in a double pole system, thus offering maximum versatility. Contacts can be configured to single or multiple doors in each case.

Contacts with Integral Resistors

Where Contacts are supplied with Integral Resistors, Cabled or Terminal, a Colour Code is used to make it easy for you to match them to your chosen control panel, ensuring you have the correct value resistors built into the Contact.

The table below identifies the 'Contact Colours' designated to the most popular control panels:

Contact Colour Code Selection

Resistors	Colour	Code	Control Panel(s)
4k7 / 2k2	Red	(RD)	ADE – Bosch – Castle – Dycon – Menvier – Pyronix – Scantronic Texecom
1k / 1k	Green	(GN)	Galaxy
8k2 / 8k2	Blue	(BL)	Guardall
4k7 / 4k7	Grey	(GY)	Aritech – Pyronix
6k8 / 4k7	Purple	(PU)	Guardtec
2k2 / 2k2	Yellow	(YL)	Bosch – Europlex

The abbreviated Colour Code e.g. 'RD' for Red is used as a suffix to the particular Contact product code required, so for example the product code for a QST Contact for use with a Scantronic panel would be QST-RD.

The product code for a RSA Roller Shutter Contact with 6 wires and integral resistors for use with a Galaxy control panel would be 6RSA-GN.

Magnetic Contacts Grade 1 & 2

Flush

Grade	1	2	2	2	2
Model	QF-5	6QFC	QFT	6FM	RFT



Terminal Contact, for use on Wood or Metal



Cabled Contact for use on Wood or Metal. Integral resistors, for use in FSL or DP systems, single or multiple doors.



Tampered Terminal Contact, for use on Wood or Metal. Integral resistors for use in FSL systems, single door.



Cabled Contact with Aluminium Flange for use on Wood or Metal. Integral resistors, for use in FSL or DP systems, single or multiple doors.



Tampered Terminal Contact with Round Flange and Pin Fixing for use on Wood or Metal. Integral resistors for use in FSL systems, single door.

Application

Material	ABS	ABS	ABS	ABS and Aluminium	ABS
Colour	White or Brown	White or Brown	White or Brown	Silver	White or Brown

Contact Details

Operating Gap- Minimum Close (mm)	16	20	20	20	20
Resistors Fitted	No	Yes	Yes	Yes	Yes
Number of Wires or Terminals	5T	6W	2T	6W	2T
Stainless Steel Cable Protection	No	No	No	No	No
Encapsulation	Potted	Potted	Potted	Potted	Potted

Contact Dimensions & Fixing

Depth (mm)	15	15	20.5	22	18
Flange (mm)	36 x 22.5	36 x 22.5	36 x 22.5	57 x 32	26 dia
Body Diameter (mm)	20	20	20	25	20
Cable Length (cm)	N/A	100	N/A	100	N/A
Fixing	Screws	Screws	Screws	Screws	Pin

Magnet Details

Depth (mm)	15	15	15	22	15
Flange (mm)	36 x 22.5	36 x 22.5	36 x 22.5	57 x 32	26dia
Body Diameter (mm)	20	20	20	25	20
Fixing	Screws	Screws	Screws	Screws	Pin

Classification

TS50131-2-6 Grade	1	2	2	2	2
Environmental Class	II	III	II	III	II
Protection	IP43	IP67	IP43	IP67	IP43

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INTRUDER



ACCESS
CONTROL

Magnetic Contacts Grade 2


Surface

Grade	2	2	2	2	2	2	2	2	2	
Model	6SL	QST	LST	VHDA	HD	HD-SO	RSC	RSA	RSL	
Application										
	Cabled Contact for use on Wood or Metal. 4 or 6 wire versions for use in FSL or DP systems, single or multiple door	Tampered Terminal Contact, for use on Wood or Metal. Integral resistors for use in FSL systems, single or multiple door.	Tampered Terminal Contact, for use on Wood or Metal. Integral resistors for use in FSL systems, single or multiple door.	Tampered Terminal Contact, for use on Wood or Metal. Integral resistors for use in FSL systems, single or multiple door.	Cabled Contact for use on Wood or Metal. 4 or 6 wire versions for use in FSL or DP systems, single or multiple door	Cabled Contact for use on Wood or Metal with built-in stand-off. 4 or 6 wire versions for use in FSL or DP systems, single or multiple door	Large Roller Shutter Contact for use on Roller Shutter doors. 4 or 6 wire versions for use in FSL or DP systems, single or multiple door.	Medium Roller Shutter Contact for use on Roller Shutter doors. 4 or 6 wire versions for use in FSL or DP systems, single or multiple door.	Small Roller Shutter Contact for use on Roller Shutter doors. 4 or 6 wire versions for use in FSL or DP systems, single or multiple door.	
	Material	ABS	ABS	ABS	ABS and Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
	Colour	White or Brown	White or Brown	White or Brown	Grey and Silver	Silver	Silver	Silver	Silver	Silver
	Contact Details									
Operating Gap- Minimum Close (mm)	20	20	40	42	25	25	70	54	70	
Resistors Fitted	Yes	Yes	Yes	Yes	6 wire version	6 wire version	6 wire version	6 wire version	6 wire version	
Number of Wires or Terminals	6W	4T	6T	6T	4W or 6W	4W or 6W	4W or 6W	4W or 6W	4W or 6W	
Stainless Steel Cable Protection	No	No	No	No	Option	Option	Yes	Yes	Yes	
Encapsulation	Potted	N/A	N/A	NA	Potted	Potted	Potted	Potted	Potted	
Contact Dimensions & Fixing										
Length (mm)	70	70	93	170	80	80	175	150	94	
Width (mm)	17	17	25	25	19	32	52	40	40	
Depth (mm)	15	15	25	25	12.5	45	15	14	15	
Cable Length (cm)	100	N/A	N/A	N/A	100	100	100	100	100	
Fixing	Screws	Screws	Screws	Screws	Screws	Screws	Screws	Screws	Screws	
Magnet Details										
Length (mm)	70	70	93	170	80	80	85	73	50	
Width (mm)	17	17	25	25	19	32	70	60	55	
Depth (mm)	15	15	25	25	12.5	45	35	40	35	
Fixing	Screws	Screws	Screws	Screws	Screws	Screws	Screws	Screws	Screws	
Classification										
TS50131-2-6 Grade	2	2	2	2	2	2	2	2	2	
Environmental Class	III	II	II	II	III	III	III	III	III	
Protection	IP67	IP43	IP43	IP43	IP67	IP67	IP67	IP67	IP67	

Magnetic Contacts Grade 3

Flush

Surface

Grade	3	3	3	3
Model	EN3-QFC	EN3-QSC	EN3-LSC	EN3-RSA
				
Application	20mm Plastic Flush, Cabled Contact for use on Wood or Aluminium. Integral resistors, for use in FSL or DP systems, single or multiple doors.	Small Surface Plastic, Cabled Contact for use on Wood or Aluminium. Integral resistors, for use in FSL or DP systems, single or multiple doors.	Large Surface Plastic, Cabled Contact for use on Wood or Aluminium. Integral resistors, for use in FSL or DP systems, single or multiple doors.	Roller Shutter Contact for use roller shutter doors. Integral resistors, for use in FSL or DP systems, single or multiple doors.
Material	ABS	ABS	ABS	Aluminium
Colour	White or Brown	White or Brown	White or Brown	Silver
Contact Details				
Magnetic Detection / Immunity	Immunity	Detection	Immunity	Detection
Operating Gap- Minimum Close (mm)	13	9	7	22
Resistors Fitted	Yes	Yes	Yes	Yes
Number of Wires or Terminals	6W	6W	6W	6W
Stainless Steel Cable Protection	No	No	No	Yes
Encapsulation	Potted	Potted	Potted	Potted
Contact Dimensions & Fixing				
Length (mm)	N/A	70	93	150
Width (mm)	N/A	17	25	40
Depth (mm)	25	15	25	14
Flange (mm)	36 x 22.5	N/A	N/A	N/A
Body Diameter (mm)	20	N/A	N/A	N/A
Cable Length (cm)	100	100	100	100
Fixing	Screws	Screws	Screws	Screws
Magnet Details				
Length (mm)	N/A	70	93	73
Width (mm)	N/A	17	25	60
Depth (mm)	15	15	25	40
Flange (mm)	36 x 22.5	N/A	N/A	N/A
Body Diameter (mm)	20	N/A	N/A	N/A
Fixing	Screws	Screws	Screws	Screws
Classification				
TSS0131-2-6 Grade	3	3	3	3
Environmental Class	III	III	III	III
Protection	IP67	IP67	IP67	IP67

High Security Magnetic Contacts

Flush

Surface

Grade	2	2	2	2	2	2	2	2
Model	FMBR	VS105	HSI	HDBR	HDBR-SO	VS222	VS302	VS303



Application

Cabled Contact for use on Wood or Metal.

Cabled Contact for use on Wood or Metal.

Wired Contact for use on Wood or Metal.

Large surface cabled Contact for use on Wood or Metal.

Large surface cabled Contact for use on Wood or Metal, with built in standoff.

Large roller shutter contact designed to work on Roller Shutter doors.

Large surface cabled Contact for use on Wood or Metal.

Large surface cabled Contact for use on Wood or Metal, includes tamper cover plate.

Material	N.C/Brass	Aluminium	ABS	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Colour	Silver	Silver	White	Silver	Silver	Silver	Silver	Silver

Contact Details

Operating Gap- Minimum Close (mm)	15	10	10	17	17	10	10	5
Number of Reeds	2	1	2	3	3	4	3	5
Biased Reeds	1	1	0	1	1	2	3	3
Tamper	Active	Passive	Active	Passive	Passive	Active	Passive	Active
Resistors Fitted	No	No	No	No	No	No	No	No
Number of Wires or Terminals	4W	4W	4W	4W	4W	6W	4	4W
Stainless Steel Cable Protection	No	No	No	Option	Option	Yes	Yes	Yes
Encapsulation	Potted	Potted	Potted	Potted	Potted	Potted	Potted	Potted

Contact Dimensions & Fixing

Length (mm)	N/A	65	39	80	80	175	109	109
Width (mm)	N/A	10	20	19	32	52	38	38
Depth (mm)	22	11.5	9	12.5	45	15	19	19
Flange (mm)	57 x 32	98.5 x 30	N/A	N/A	N/A	N/A	N/A	N/A
Body Diameter (mm)	25	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cable Length (cm)	100	150	50	150	150	100	100	100
Fixing	Screws	Screws	Screws	Screws	Screws	Screws	Screws	Screws

Magnet Details

Length (mm)	N/A	N/A	39	80	80	85	109	109
Width (mm)	N/A	N/A	14	19	32	70	38	38
Depth (mm)	22	15	9	12.5	45	35	19	19
Flange (mm)	57 x 32	38 x 28	N/A	N/A	N/A	N/A	N/A	N/A
Body Diameter (mm)	25	25	N/A	N/A	N/A	N/A	N/A	N/A
Fixing	Screws	Screws	Screws	Screws	Screws	Screws	Screws	Screws

Classification

TS50131-2-6 Grade	2	2	2	2	2	2	2	2
Environmental Class	III	III	III	III	III	III	III	III
Protection	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67

Door Loops



ELMDENE

Security & Fire Products

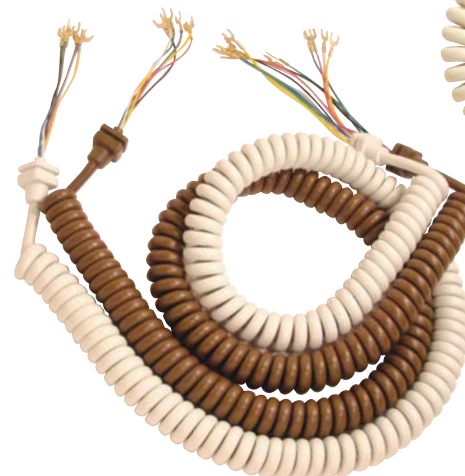
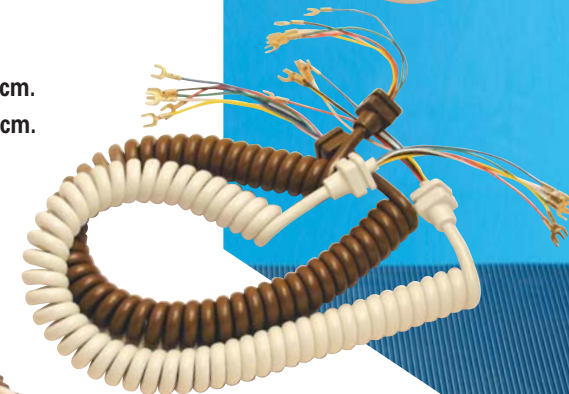
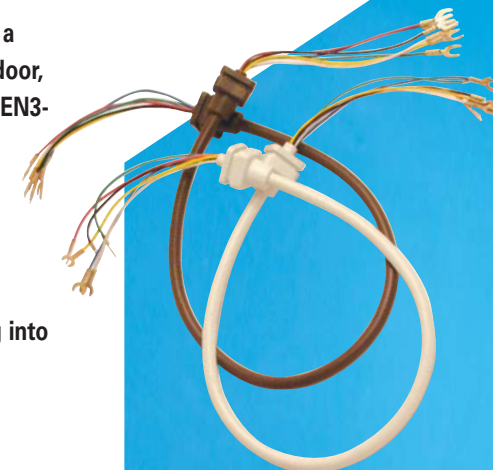
A range of Door Loops for applications requiring a flexible cable routing across a hinged or sliding door, window or partition; ideal for use with Elmdene EN3-JB9-HD environmental class III Junction Box.

Features:

- 6 Core flexible tinsel cable.
- Coloured cable cores.
- Standard square cable grommets for sealing into suitable junction box.
- Available in White or Brown.

Sizes:

- EDL1 – 30cm fixed length.
- EDL2 – 25cm extendable up to 170cm.
- EDL3 – 50cm extendable up to 330cm.



*Door Loops
you can rely on*



INTRUDER



ACCESS
CONTROL



ELMDENE

Security & Fire
Products

WIRING SYSTEMS

UP TO 4x 8 CORE
SECURITY CABLES
ENTRY FROM REAR

MT1
TRUNKING

MT2
TRUNKING

MULTIPLE SECURITY
CABLES ENTRY FROM
REAR THROUGH
KNOCKOUTS

*Junction Boxes
you can rely on*



INTRUDER



ACCESS
CONTROL



CCTV

INTERNAL
CAVITY
ALLOWS
PLENTY OF
ROOM TO
TERMINATE
CABLES

STRENGTHENED
LID
CONSTRUCTION
PROVIDES
SUPERIOR
PROTECTION

The EN range of Junction Boxes feature a high reliability spring action micro switch for the lid tamper, so now your engineers can confidently connect the tamper when using a junction box;

JB7 and JB10 Dimensions
(mm): 93L x 25W x 26D

EN3-JB7

7 Terminals including 2
tamper connections

EN3-JB10

10 Terminals including 2
tamper connections



JB7 & JB10 also
available in brown

SPRING ACTION
MICRO SWITCH
TAMPER

CLAMP STYLE
TERMINALS

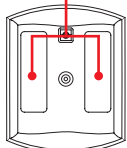
CABLE ENTRY FOR
1 OR 2 x 8-CORE
SECURITY CABLES

DOUBLE WALL
PREVENTS ACCESS TO
TERMINALS UNTIL
SWITCH HAS OPENED

Image shows
EN3-JB10

ENVIRONMENTAL CLASS II

WRITABLE
SURFACE
INSIDE LID
FOR CIRCUIT
REF. &
RECORDS

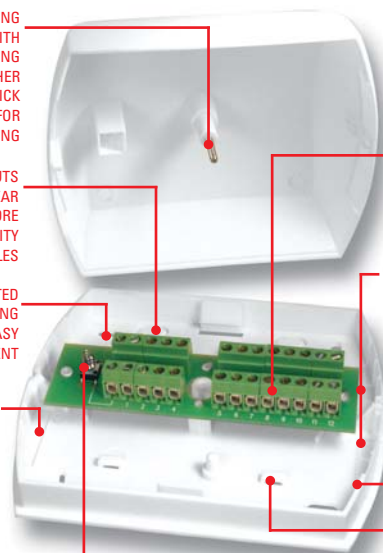


SINGLE FIXING
SCREW WITH
RETAINING
WASHER
ALLOWS QUICK
REMOVAL FOR
SERVICING

4 X KNOCKOUTS
FOR 2 REAR
ENTRY 8-CORE
SECURITY
CABLES

4 X SLOTTED
MOUNTING
HOLES FOR EASY
ALIGNMENT

KNOCKOUTS
DESIGNED TO
ALLOW
TRUNKING TO
TERMINATE
INSIDE THE
BOX



EN3-JB26
Dimensions (mm):
124L x 100W x 45D

RAISED TERMINAL BLOCKS
GIVE EASY ACCESS FOR
CONNECTIONS
(INSTALLATION AND
SERVICING)

KNOCKOUTS AT BOTH ENDS
CAN ACCEPT MT1 OR MT2

MT1 CAN BE USED IN 2
POSITIONS AT EACH
LOCATION

DOUBLE WALL
PREVENTS ACCESS TO
TERMINALS UNTIL
SWITCH HAS OPENED

4 X CABLE TIE
POINTS

SPRING ACTION MICRO SWITCH TAMPER

Junction Boxes

maintaining the security and integrity of the system and indeed the reputation of your company.

The Junction Boxes are designed to meet PD6662:2004 +A1 +A2/ BS EN 50131-1:2006 and the environmental testing requirements of DD CLC/TS 50131-2-2:2004 Class II or III as indicated.

ENVIRONMENTAL CLASS III

EN3-JB9 Dimensions (mm): 94L x 40W x 25D

DUAL LID FIXING FOR
MAXIMUM SECURITY

LARGE
INTERNAL
VOLUME TO
COPE WITH
THE EXCESS
CABLE

SLOTTED
FIXING
HOLES AID
ALIGNMENT

OPTIONAL M4 KNOCKOUT
FOR CENTRAL FIXING HOLE

WATER
MANAGEMENT

SPRING ACTION MICRO
SWITCH TAMPER

DOOR LOOP
STYLE TERMINAL

REAR CABLE
ENTRY TO SUIT 2 x
8 CORE CABLES

CONTINUOUS
GASKET SEALING.
SEALS 1 OR 2 x
8-CORE SECURITY
CABLES AS WELL AS
INDIVIDUAL CORES

VARIOUS WIRING SYSTEMS
(DETAILED RIGHT)



Also available in brown

End sealing
Grommets
supplied
separately in
packs of 10



ELMDENE

Security & Fire
Products

WIRING SYSTEMS

8-CORE CABLE

8-CORE STRIPPED

ROUND GROMMET

SQUARE GROMMET

ROUND ALU CONDUIT

ALL CONDUIT SQUARE GROMMET

DOOR LOOP

MT1 TRUNKING

*Junction Boxes
you can rely on*



INTRUDER



ACCESS
CONTROL



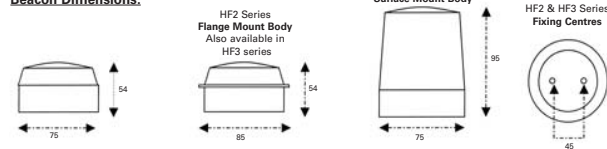
CCTV

**ELMDENE**Security & Fire
Products

Xenon Beacons

A range of beacons featuring low current operation with maximum light intensity & dispersion, compatible with a wide range of systems, suitable for internal & external use.

Specification	HF2 Series	HF3 Series
Voltage dc	12, 24, 48	12, 24
Voltage ac	110, 240	N/A
Power Output - W	0.5, 1, 2, 3	5
Current Consumption (12V) - mA	42, 84, 168, 252	420
Current Consumption (24V) - mA	21, 42, 84, 126	210
Flash Rate	1 per Second	1 per Second
Classification	IP65	IP65
Lens Material	Polycarbonate	Polycarbonate
Body Material	ABS	ABS
Temperature Range	-30° C to +70° C	-30° C to +70° C

Beacon Dimensions:**Beacon Mounting Options:****Mount Options**

Beacons
you can rely on



INTRUDER

ACCESS
CONTROL

FIRE

ANCILLARIES 1

**ELMDENE**Security & Fire
Products**Document Box**

Lockable Document Box for safe keeping of important System documents / Log Book e.t.c. All keyed alike. Size 300h x 235w x 50d.

Exit Guard**On/ Off**

Key switch with 2 keys removable in the on and off position

Warning Devices

Audio warning 110dBA @ 1m

Power Supply

9v PP9 internal battery giving minimum 6 month usage

Magnetic Contact

Normally open contact with the door open

Other features

Battery test push button and LED

Size

H190mm x W155mm x D55mm

Fixing

4 screw fixings

Loop Alarm**On/ Off**

Key switch with 2 keys removable in the on and off position

Warning Devices

Audio warble in alarm, Red LED indicator for power on

Power Supply

9v PP9 internal battery giving minimum 3 month usage

Loop Detection

Open circuit detection on loop of up to 100m. Short circuit protection on the first 2 m loop

Size

H145mm x W95mm x D60mm

Fixing

Rail clamps or floor mounting

Extension Speaker**Power rating**

20W

Impedence

8 ohms/16 ohms

Fixing

4 screw fixing holes

Lid

Screw retained

Tamper

Detects removal from mounting (suffix T models)

Size

H110mm x W110mm x D55mm

Safe Limpet**Model****E20****Features**

Piezo vibration detector
Thermal Sensor
Safe proximity Sensor
External magnet detector
Supply fail detection
Integral Analyser

Limpet

H120mm x W95mm x D35mm

Keep

H130mm x W105mm x D30mm

E16A

Inertia vibration detector
Thermal Sensor
Safe proximity Sensor
Supply fail detection
Integral Analyser

H120mm x W95mm x D75mm

H130mm x W105mm x D30mm

Ancillaries
you can rely on



INTRUDER

ACCESS
CONTROL

FIRE

**ELMDENE**Security & Fire
Products

ANCILLARIES 2

Fused Output Module**Output**

4 or 8 individual fused outputs with a maximum current handling capacity of 6Amps up to 50V ac or dc.

Size

95L x 66W x 33D

Fixing

5 fixing holes to be used with mounting standoffs

Multi Purpose Relay**Input voltage/ current**

12v dc @ 13mA

Switching Relay

Two sets of separate contacts to switch 24v dc at 1 Amp or 125vac at 0.5Amp (Note is not suitable for switching 240vac)

Trigger input

Separate low current input 1mA

Wiring protection

Reverse connection protection

Size

72L x 26W x 20D

Fixing

4 fixing holes to be used with mounting standoffs

Mains Relay Timer**Power**

12Vdc @ 50mA

Switch Contacts

voltfree changeover, 240Vac @ 3A maximum

Timer

Continuously variable 2 - 40 minutes (approx.)

Operating ModesPower Relay - use 12v input to switch 240V contacts
Timer - output changes state after pre-set time period**Trigger Modes**Pulse - momentary pulse starts timer
Normal - apply and hold 12v to enable timer**Size**

124L x 100W x 45D

Fixing

4 fixing holes to be used with mounting standoffs

Set Switch (magnetic)**Switch Type**

NO contact, momentary closure by metal tag

Switch connection

2 screw terminals

Bezel Size

50 x 26mm

Body Size

20dia x 35D

Fixing Centres

36mm (bezel)

Set Switch (Push with LED Indicator)**Switch**

NO contact, push to close

LED

with 1K0 series resistor for 12Vdc

Connections

4 screw terminals

Bezel Size

50 x 28mm

Body Size

18.3 dia x 12D

Fixing Centres

36 mm (bezel)

*Ancillaries
you can rely on*

INTRUDER

ACCESS
CONTROL

FIRE

EN50131

PD6662: 2004 Product Grading and Environmental Class

The following Elmdene International Ltd products may be used in systems designed to comply with PD6662: 2004 at the indicated grade and environmental class.

External Sounders	Grade	Class
HS Range	3	IV
Maxitec Range	3	IV
Prima 400, 500	3	IV
Quartz Range	3	IV
Rapier 2000	4#	IV
Rapier 4000, 6000	3	IV
SA 2000	3	IV
Sounda	3	IV
Starlight Range	3	IV
Vertec Range	3	IV

Internal Sounders	Grade	Class
ELM 300	3	II
INT 400, 500, 600	3*	II
INT 400S, 500S, 600S	3	II

Speakers	Grade	Class
TS443-16	3*	II
TS443-16T	3*	II
TS443-8	3*	II

Speakers	Grade	Class
TS443-16	3*	II
TS443-16T	3*	II
TS443-8	3*	II

Ancillaries	Grade	Class
Document Box	All	II
EN3-7, 10, 26	3	II
EN3-JB9-HD	3	III
FOM 8	All	++
Limpets E16, E16A, E20	3	II
Limpet Keep	3	II
Mains Relay Timer	All	II
Multi Purpose Relay	All	II
Set Switch Range	3	II
Spyder EL	3	II
Spyder EL+C	None	II

Compliant with EN50131-6:1997

Power Supplies	Grade	Class
EN2 Range	2	II
EN3 Range	3	II

**ELMDENE**Security & Fire
Products**Compliant with DD CLC/TS50131-2-6:2004**

Contacts	Grade	Class
B	2	III
BP	2	III
EN3-QFC	3	III
EN3-QSC	3	III
EN3-LSC	3	III
EN3-RSA	3	III
F	2	III
FM	2	III
HD, HD-SO	2	III
HDBR, HDBR-SO	2	III
HSI	2	III
LST	2	II
M	2	III
MDA	2	III
MDP	2	III
PHD	2	II
QF-5	1	II
QFC	2	III
QFT	2	II
QSC	2	III
QST	2	II
RFT	2	II
RSA	2	III
RSC	2	III
RSL	2	III
RSM	2	III
S	2	III
SFE	2	III
SFU	2	III
SL	2	III
SM	2	III
SHD, SHD2	2	II
VHDA	2	II
VS105	2	III
VS222	2	III
VS302	2	III
VS303	2	III



INTRUDER

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3*

4#

All

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Should not be used as a warning device for notification purposes.

Grade 4 when used with I.d. biscuit or similar.

Products not required to be graded but suitable for use in all PD666:2004 systems.

Dependant upon enclosure in which device is mounted in.



ELMDENE

*Security & Fire
Products*



INTRUDER



CCTV



ACCESS
CONTROL



FIRE

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LIMITED

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