

Electrical, Lighting & Security

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Junction Boxes

ChocBox

Polypropylene inline Connector/Junction Box



H = 30, W = 90, D = 50mm

The patented Chocbox is a safe and simple covering solution to protect and insulate electrical connections. The Chocbox can be used as a cover, junction box or inline connector. It is designed to meet the requirements of the IEE regulations and the Health & Safety executive. i.e. insulation of bare connectors.

Flammability rating (White version) **UL94V-0**

Supplied with 2 cable clamps and mounting screws.

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Colour	Mfrs. List No.	Order Code	1+	10+	50+
White	CHOCBOX V0	151-1698	4.93	4.73	4.57

Audio Transformers

100V Line Transformers



A range of transformers for converting low impedance speakers (8Ω or 16Ω), so that they can be used on long cables runs and connected to 100V line P.A. speaker systems.

Order Code	Power Tappings	Secondary	Fixing Centres	Dimensions (WxHxD)
177-8003	0.6, 1.25, 2.5, 5, 10W	8 and 16ohm	50mm	35x16x35mm
177-8004	2.5, 5.0, 15, 20W	8 and 16ohm	67mm	47x77x40mm
177-8005	1.9, 3.75, 7.5, 15, 30W	8 and 16ohm	65mm	48x75x45mm
177-8007	0.5, 1, 2, 4W	8 and 15ohm	50mm	44x37x35mm
177-8008	1, 2, 4, 8W	8 and 15ohm	60mm	50x42x40mm
177-8009	4, 8, 12, 16W	8 and 15ohm	60mm	50x42x40mm
177-8010	1.25, 2.5, 5, 10, 15W	8 and 15ohm	60mm	50x42x40mm
177-8011	10, 20, 30, 40W	8 and 15ohm	69mm	56x47x43mm

339369.260593

Price Each

Power	Order Code	1+	10+	25+
10W	177-8003	9.73	8.18	--
20W	177-8004	11.85	--	--
30W	177-8005	13.50	12.43	12.27
4W	177-8007	9.46	8.19	7.43
8W	177-8008	10.03	8.34	8.18
16W	177-8009	9.46	8.65	8.14
15W	177-8010	8.91	8.79	--
40W	177-8011	15.68	13.38	12.43

Sounders - Audio Transducers

Audio Transducer



An externally driven device that contains no electronics and requires circuitry to produce a tone.

- Ultra low profile
- Reflow solderable and washable

Supply Voltage	2V - 4V	Material	LCP
Current Rating	100mA	Operating Temperature	-30°C to +70°C
Sound Pressure Level (SPL)	78dB	Dimensions (H x W x D)	5mm x 5mm x 2mm
Sound Level Distance	10cm	Weight	0.3g
Self Resonant Frequency	4000MHz		

610315

Mfrs. List No.	Order Code	1+	10+	50+	100+
ABMT-801-RC	182-6214	2.30	2.16	2.12	2.02

Surface Mount Audio Transducer

Piezo Ceramic



- Stainless steel bender for harsh environments
- 4100 Hz resonant frequency
- 1.7mm low profile package
- Compact footprint
- Top firing sound port

Mfrs. List No.	SMT-1141-T-3-R	Resonant Frequency	4100Hz
Operating Voltage	1.0-25.0V p-p	Sound Pressure Level	73dBA
Rated Voltage	5.0V p-p	Dimensions	9.0 x 11.0 x 1.7mm
Rated Current	2.9mA	Weight	0.3 g

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Mfrs. List No.	Order Code	1+	10+
SMT-1141-T-3-R	119-2962	5.14	4.61

Sounders - Audio Transducers - continued

Magnetic Transducer - Surface Mount

NFT-03C



- Extremely small reflowable magnetic sounder
- High output - cavity for increased SPL not required
- Applications: Digital Cameras, Thermometer / Blood Pressure Monitor, Remote Control



W=5 H=5 D=3mm. Weight 0.3g

Rated Frequency	4000Hz	Current Consumption (Max)	90mA
Rated Voltage	3V	SPL (0.3W @10cm)	74dB
Max. Operating Voltage	4V	Operating Temperature	-30°C to +70°C

450427.473231

Price Each					
Order Code	1+	10+	25+	50+	+
129-9755	5.11	4.89	4.76	4.29	--

Magnetic Transducer - Surface Mount

MLT-03CHN



- Small and slim design
- High sound output
- Unique structure and housing allows for reflow process

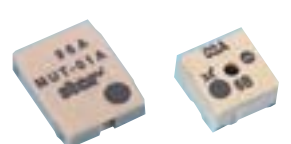


		W=10.25 H=8.5 D=3mm. Weight 0.5g	
Rated Frequency	3000Hz	Current Consumption (Max)	100mA
Rated Voltage	3.6V	SPL (0.3W @10cm)	102dB
Max. Operating Voltage	4.5V	Operating Temperature	-30°C to +70°C

450431.473232

Price Each					
Order Code	1+	10+	25+	50+	+
129-9756	6.07	5.77	5.66	5.11	--

Electromagnetic Transducers - Surface Mount



- Surface mount electromagnetic transducers
- Reflow solder - non washable

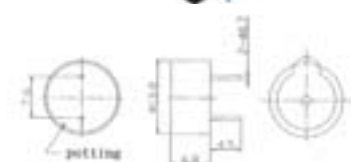
MUT Series MNT Series
H=3, W=11, D=14 H=4.5, W=9, D=9

Order Code	119-3541
Mfrs List No.	MNT-03A
Rated Frequency	2670Hz
Rated Voltage (50% duty cycle)	3.6V
Current Consumption (Typ)	85mA
Coil Resistance	16Ω
Sound Output (Typ. @10cm)	94dB
Sound Exit	Top
Operating Temperature	-30°C to +70°C
Weight	1g

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Price Each					
Order Code	1+	10+	25+	50+	+
170-2884	15.41	14.01	13.39	12.52	--
170-2885	15.41	14.01	13.39	12.52	--
119-3541	12.84	12.37	11.67	10.73	--

Piezo Transducer, PCB Mount, 5Vp-p



An externally driven device that contains no electronics and requires circuitry to produce a tone.

- PCB mountable
- Low power consumption
- Sealed base
- Wave solderable and washable

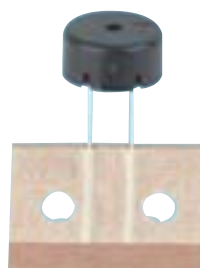
Rated Voltage	5V (p - p square wave)	SPL (at 10cm at rated V)	≥80dB
Operating Voltage	1 - 20Vp - p	Resonant Frequency (at rated V)	4kHz (±500Hz)
Rated Current (at rated V)	1mA	Operating Temperature	-20°C to 70°C
Capacitance	13000pF	Weight	1g

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Mfrs.		Price Each			
List No.	Order Code	1+	10+	50+	100+
ABT-402-RC	102-2401	2.57	2.10	1.94	1.71

Piezo Sounder

External Driven



- Externally driven piezo sounder
- Ammo packing for automatic insertion

Voltage	30V AC p - p
Frequency	4kHz
Capacitance	5.5nF
Sound pressure level @ 100mm	70dB
Operating Temperature (°C)	-20°C to +80°C

Dia = 12.6 H = 6.9. Lead length = 22

240084.473472

Price Each					
Order Code	1+	10+	100+	250+	500+
119-2513	0.894	0.663	0.472	0.419	0.343

Electromagnetic Transducers



- Compact transducers which give a high sound output
- Harmonic content gives a richer sound

H=8.5, Dia=12, FC=6.5-Dia=0.6

Order Code	119-3537	119-3538	119-3539
Mfrs List No.	QMB-111PN	QMB-111GPN	QMB-111PC
Frequency	2048Hz	2048Hz	2kHz
Rated Voltage (50% duty cycle square wave)	1.5V	1.5V	5V
Current Consumption (Typ)	8.3mA	26mA	31mA
Coil Resistance	140Ω	40Ω	140Ω
Coil Impedance	50Ω	16Ω	50Ω
Sound Output (min @10cm)	80dB	85dB	85dB
Operating Temperature	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C
Weight	2g	2g	2g

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Price Each					
Order Code	1+	10+	25+	50+	+
119-3537	3.62	3.49	3.34	3.15	--
119-3538	4.41	4.27	4.01	3.58	--
119-3539	3.84	3.70	3.48	3.13	--

Piezo Transducers



- Multi purpose miniature transducers
- Sound outputs up to 92dB
- Applications include office equipment, telecoms and computer equipment

Order Code	119-3643	119-3644	119-3665	119-3666
Mfrs List No.	KPEG130	KPEG116	KPEG-167	KPEG-812
Operating Voltage (V p-p max)	30V	30V	30V	30V
Drive Frequency	3kHz	2kHz	4kHz	4kHz
Current Consumption (max.)	10mA	8mA	9mA	11mA
Capacitance	18000pF	28000pF	15000pF	25000pF
Min. Sound output (@ 10cm)	90dB	90dB	80dB	92dB
Operating Temperature	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C
Weight	4.4g	5.6g	0.9g	2.5g
Dimensions (∅ x H)	30.2 x 7.5mm	30 x 10mm	13.5 x 6.2mm	22.1 x 6.6mm
Dimensions (FC x Pin ∅)	15.2 x 1mm	15.2 x 1mm	7.5 x 0.8mm	10 x 0.8mm

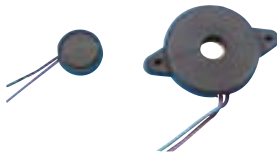
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Price Each					
Order Code	1+	10+	25+	50+	+
119-3643	2.64	2.26	1.97	1.70	--
119-3644	3.76	3.36	3.04	2.69	--
119-3665	3.48	3.28	3.20	2.82	--
119-3666	2.72	2.36	2.29	2.28	--

Piezo Transducers - Flying Leads



- A range of general purpose piezo ceramic transducers
- Flange mounting except 119-3640
- Low current consumption and a high sound pressure level



119-3640 119-3642

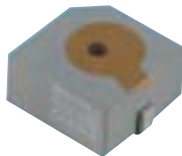
Order Code	119-3640	119-3641	119-3642
Mfrs List No.	KPEG165	KPEG110	KPEG827
Operating Voltage (V p-p max)	30V	30V	50V
Drive Frequency	4.8kHz	4.1kHz	4.5kHz
Current Consumption (max.)	11mA	12mA	11mA
Capacitance	15000pF	25000pF	18000pF
Min. Sound output (@ 10cm)	85dB	90dB	97dB
Operating Temperature	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C
Weight	1g	2.2g	4.7g
Dimensions (Ø x H x FC)	14 x 4mm	24 x 5 x 29mm	30 x 5.1 x 35mm
Lead Length	90mm	95mm	110mm

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	Price Each					
Order Code	1+	10+	25+	50+	+	+
119-3640	2.78	2.66	2.51	2.24	--	--
119-3641	4.86	4.62	4.40	3.92	--	--
119-3642	3.07	2.91	2.78	2.47	--	--

Sounders - Buzzers & Sirens

Surface Mount Audio Buzzer



- SMD Mounting
- 6.5mm low profile case configuration
- Compatible with convection, IR and vapor phase
- Sealed with removable tab for washing
- 2400Hz frequency

Rated voltage	5V DC	Sound pressure level @ 10cm	88dBA
Operating voltage	4-7V DC	Max current consumption	30mA
Resonant frequency	2400Hz	Dimensions	12.8 x 12.8 x 6.5mm

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	Price Each				
Order Code	1+	10+	25+	50+	+
119-2950	7.62	6.80	6.18	5.57	--

Piezo Buzzers



A self contained solid state device that produces a sound when DC voltage is applied.

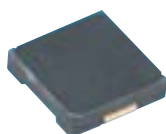
- Housing material: PPS
- Reflow solderable and washable
- Pin material: Brass
- Compact surface mount indicator

Rated Voltage	5V dc	ABI-017-RC	12V dc	ABI-018-RC
Operating Voltage	4 - 7V dc		8 - 15V dc	
Rated Current	30mA at rated voltage			
Sound Output	88dB (at 10cm at rated V)		85dB (at 10cm at rated V)	
Material	PPS		PPS	
Resonant Frequency	2.4kHz ±400Hz			
Operating Temperature	-20°C to 70°C			
Dimensions (WxHxD)	12.8 x 12.8 x 7.1mm			
Weight	2g			

494911

	Price Each				
Mfrs. List No.	Order Code	1+	10+	100+	250+
ABI-017-RC	150-4107	6.36	5.88	5.28	4.74
ABI-018-RC	150-4108	6.52	6.03	5.47	4.81

Piezo Sounder - Surface Mount



- High performance piezo ceramic element offers high sound pressure level and clear sound
- Suitable for reflow soldering - non washable
- Small, thin and lightweight

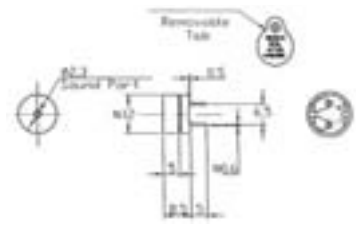
W=12 D=12 H=3mm

Voltage (max)	25V p-p	Mfrs. List No.	PKLCS1212E2000-R1 (2 kHz)
Sound pressure level	75dB @ 10cm		PKLCS1212E4001-R1 (4 kHz)
Operating Temperature Range	-20 to 70°C		

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Frequency	Order Code	1+	10+	50+	100+	250+
2kHz	176-5028	4.97	3.68	3.24	2.38	2.02
4kHz	119-2551	3.20	2.47	2.25	1.59	1.31

Electromechanical Buzzers



An externally driven device that contains no electronics and requires circuitry to product a tone.

- PCB mountable
- Low current consumption

Rated Voltage	1.5V (p - p square wave)	Coil Impedance	120 Ω
Operating Voltage	1 - 3Vp - p	(at 2048Hz sine wave)	
Rated Current (at rated V)	≤15mA	Operating Temperature	-25°C to 70°C
SPL (at 10cm at rated V)	≥80dB	Housing Material	Noryl SE1
Resonant Frequency (at rated V)	2.04kHz	Colour	Black
Coil Resistance	42 Ω (±6Ω)	Weight	2g

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	Price Each				
Mfrs. List No.	Order Code	1+	10+	50+	100+
ABT-410-RC	102-2402	2.32	1.90	1.72	1.54

Electromechanical Buzzers, PCB Mount



A self contained solid state device that produces a sound when DC voltage is applied.

- Black in colour
- Wave solderable and washable
- Built-in oscillating circuit
- Housing material: Noryl
- Sealed structure

Rated Voltage	6V DC	12V DC
Operating Voltage	4 - 8V DC	8 - 16V DC
Rated Current (at rated V)	30mA	30mA
SPL (at 10cm at rated V)	≥85dB	≥85dB
Resonant Frequency (at rated V)	2.3kHz (±500Hz)	2.3kHz (±500Hz)
Operating Temperature	-20°C to 70°C	-20°C to 70°C
Housing Material	Noryl	Noryl
Colour	Black	Black
Weight	2g	2g

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	Price Each				
Mfrs. List No.	Order Code	1+	10+	50+	100+
ABI-009-RC	102-2397	4.68	3.84	3.51	3.07
ABI-010-RC	102-2399	4.59	3.76	3.44	3.07

Piezo Buzzer, PCB Mount, 12V dc



A self contained solid state device that produces a sound when DC voltage is applied.

- Housing material: Noryl
- Black in colour
- PCB mountable
- Built-in oscillating circuit
- Sealed base
- Low power consumption
- Wave solderable and washable

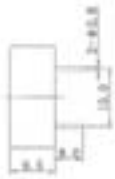
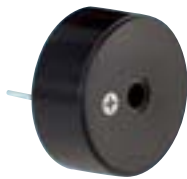
Rated Voltage	12V DC	Operating Temperature	-20°C to 70°C
Operating Voltage	3 - 16V DC	Housing Material	Noryl
Rated Current (at rated V)	7mA	Colour	Black
SPL (at 10cm at rated V)	≥80dB	Weight	1g
Resonant Frequency (at rated V)	4kHz (±500Hz)		

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	Price Each				
Mfrs. List No.	Order Code	1+	10+	50+	100+
ABI-001-RC	102-2392	3.79	3.08	2.85	2.57

Sounders - Buzzers & Sirens - continued

Piezo Buzzer, PCB Mount, 12V dc



A self contained solid state device that produces a sound when DC voltage is applied.

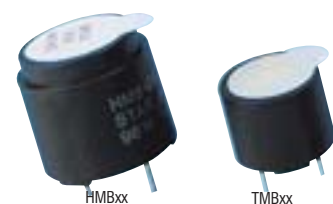
- Sealed base
- PCB mountable
- Wave solderable
- Black in colour
- High sound output

Rated Voltage	12V DC	Operating Temperature	-20°C to 60°C
Operating Voltage	3 - 20V DC	Housing Material	ABS
Rated Current (at rated V)	15mA	Colour	Black
SPL (at 10cm at rated V)	≥95dB	Weight	4g
Resonant Frequency (at rated V)	3.4kHz (±500Hz)		

416903.423145

Mfrs.	Order Code	1+	10+	50+	100+
List No.					
ABI-003-RC	110-7581	4.03	3.28	3.02	2.75

Electromagnetic Audio Indicators - PCB Mounting



- A range of electromagnetic alarms in two case sizes
- Dip solderable and washable - remove sealing label after washing

Order Code	119-3526	119-3527	119-3528	119-3529
Mfrs List No.	HMB06	HMB12	TMB05	TMB12
Frequency	2.2kHz	2.2kHz	2.3kHz	2.3kHz
Operating Voltage	4 - 7Vdc	8 - 16Vdc	4 - 6.5Vdc	8 - 16Vdc
Current Consumption (Typ)	27mA	25mA	22mA	15mA
Sound Output (min @10cm)	85dB (@6Vdc)	85dB (@12Vdc)	85dB (@5Vdc)	85dB (@12Vdc)
Operating Temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Weight (g)	5g	5g	2g	2g
Dimensions (Dia x H x Pitch x pin dia)	16 x 14 x 7.6 x 0.7mm	12 x 9.5 x 7.6 x 0.6mm		

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Order Code	1+	10+	25+	50+	+	+
119-3526	10.02	9.60	9.12	8.22	--	--
119-3527	9.63	9.23	8.76	7.90	--	--
119-3528	9.90	9.51	9.01	8.10	--	--
119-3529	9.90	9.51	9.01	8.10	--	--

Piezo Audio Buzzer



Application note: If a resistor is required in series with the supply to reduce the buzzer volume, a 1µF capacitor should be connected in parallel with the buzzer. Please see datasheet for details.

- Self driven, PCB mounting piezoelectric buzzer
- Wide DC operating voltage
- Use where large sound volumes are required

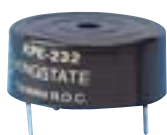
Dia = 24.3 H = 9.7

Operating Voltage Range	V DC3.0 to 15	Operating temperature °C	-20°C to +70°C
Current consumption	12mA	Frequency	kHz3.8
Sound level	dB90 @ 10cm		

239903.473469

Mfrs. List No.	Order Code	1+	10+	50+	100+	+
PKB24SPCH3601-B0	119-2515	5.35	4.96	3.88	3.35	--

Piezo Buzzers



- General purpose continuous tone piezo buzzers
- Built in drive circuit
- High sound pressure level with a low current consumption

119-3652

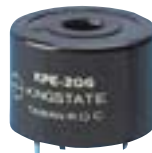
Order Code	119-3651	119-3652	119-3647	119-3649
Mfrs List No.	KPEG222	KPEG232	KPEG228	KPEG238
Resonant Frequency	3.2kHz	3.2kHz	3.4kHz	3.4kHz
Operating Voltage	3-20Vdc	3-20Vdc	3-20Vdc	3-20Vdc
Current consumption (max @12Vdc)	13mA	13mA	15mA	15mA

Sound output (@12Vdc, @ 30cm)	75dB	75dB	80dB	80dB
Operating Temperature	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C
Weight	5g	1.2g		
Dimensions (Ø x H)	23.3 x 10.2mm	9 x 24mm		
Pins (Pitch x Pin Ø)	15 x 0.8mm	17.5 x 0.8mm	15 x 0.8mm	17.5 x 0.8mm

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Order Code	1+	10+	25+	50+
119-3651	9.61	8.99	8.51	7.65
119-3652	8.76	8.18	7.76	6.98
119-3647	7.20	6.63	6.42	6.17
119-3649	10.76	10.33	9.79	8.81

Piezo Alarms



- General purpose continuous tone piezo alarm
- Built in drive circuit
- 24mm diameter alarms with 3 frequency options

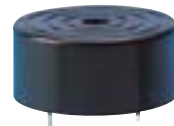
119-3681

Order Code	119-3679	119-3677	119-3680	119-3678	119-3681	119-3646
Mfrs List No.	KPEG-202	KPEG-202A	KPEG-204	KPEG-204A	KPEG-206	KPEG208
Resonant Frequency	2.9kHz	2.9kHz	3.4kHz	3.4kHz	3.8kHz	4kHz
Operating Voltage	3-20Vdc	3-20Vdc	3-20Vdc	3-20Vdc	3-20Vdc	3-20Vdc
Current (max @12Vdc)	6mA	8mA	9mA	9mA	15mA	14mA
Sound Level (@12Vdc, @ 30cm)	78dB	83dB	86dB	93dB	85dB	83dB
Operating Temperature	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C
Weight	7g	4.5g	5g	5g	4g	1.2g
Dimensions (Ø x H)	23.8 x 16mm	23.8x16mm	24.5x16mm	24x17.2mm	24x17.5mm	
Pins (Pitch x Pin Ø)	15 x 0.8mm	15 x 0.8mm	15 x 0.8mm	15 x 0.8mm	15 x 0.8mm	

212929.473265

Order Code	1+	10+	25+	50+	+	+
119-3679	4.24	4.10	3.88	3.47	--	--
119-3677	10.02	9.60	9.12	8.22	--	--
119-3680	7.26	6.97	6.58	5.90	--	--
119-3678	9.45	9.09	8.60	7.89	--	--
119-3681	7.78	7.37	7.04	6.31	--	--
119-3646	9.96	9.51	9.02	8.13	--	--

Piezo Buzzers



- General purpose piezo ceramic audio indicators

Order Code	119-3672	119-3674	119-3675	119-3676
Mfrs List No.	KPEG-272	KPEG-272A	KPEG-276	KPEG-276A
Operating Voltage	3 - 28Vdc	3 - 20Vdc	3 - 28Vdc	3 - 20Vdc
Oscillating Frequency	3.5kHz	3.7kHz	2.7kHz	2.8kHz
Current Consumption (max.)	6mA	10mA	6mA	10mA
Min. Sound output (@ 30cm)	88dB	95dB	79dB	93dB
Operating Temperature	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C
Weight	7g	7g	7g	7.2g
Dimensions (Ø x H)	31.5 x 14.4mm	31.5 x 14.4mm	31.5 x 14.4mm	32 x 14.7mm
Dimensions (FC x Pin Ø)	17.5 x 1mm	17.5 x 1mm	17.5 x 1mm	17.5 x 1mm

212917.473253

Order Code	1+	10+	25+	50+	+	+
119-3672	2.14	--	--	--	--	--
119-3674	10.43	10.00	9.50	8.50	--	--
119-3675	9.15	8.78	8.32	7.48	--	--
119-3676	11.58	11.04	10.51	9.42	--	--

Panel Mount Piezo Ceramic Buzzer

AI-4328/9



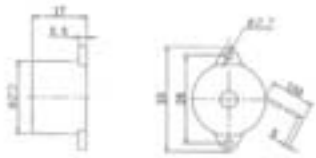
- Continuous or pulsing tones
- Panel mount design
- Quick connect terminals

Mfrs. List No.	Order Code	1+	10+	25+	50+	+
Tone	AI-4328-P-C28-2-R					
Supply Voltage	Continuous					
Rated Current	4-28V DC					
Resonant Frequency	8mA @ 12V DC					
Sound Pressure Level	2.8kHz ±0.5kHz					
Operating Temperature	97dB @ 12V DC					
Dimensions	-20°C to +60°C					
Weight	Ø 43.0 x 33.0mm					

338726.473078

Mfrs. List No.	Order Code	1+	10+	25+	50+	+
AI-4328-P-C28-2-R	119-2953	20.00	17.72	16.15	14.57	--
AI-4329-P-FP28	119-2955	19.61	15.88	11.64	9.66	--

Piezo Buzzer, Leads, 12V dc



A self contained solid state device that produces a sound when DC voltage is applied.

- Housing material: ABS
 - Black in colour
 - Built-in oscillating circuit
 - Flange mounted with wire leads
- Rated Voltage 12V DC Operating Temperature -20°C to 60°C
 Operating Voltage 3 - 16V DC Housing Material ABS
 Rated Current (at rated V) 8mA Colour Black
 SPL (at 10cm at rated V) ≥90dB Weight 5g
 Resonant Frequency (at rated V) 3.7kHz (±500Hz)

416904.423146

Mfrs. List No.	Order Code	1+	10+	50+	100+
ABI-006-RC	102-2394	5.69	4.65	4.27	3.85

Piezo Buzzers - 3 Tone Options



- A range of flange or PCB mounting piezo audio indicators
- Choice of tones
- Wide operating voltage range

Order Code	119-3667	119-3668	119-3669	119-3671
Mfrs List No.	KPEG-350	KPEG-351	KPEG-353	KPEG-500
Oscillating Frequency	2.8kHz	2.8kHz	2.8kHz	2.5kHz
Operating Voltage	3-28Vdc	3-28Vdc	3-28Vdc	5-13Vdc
Current Consumption (max @12Vdc)	7mA	6mA	8mA	60mA
Sound output (min @30cm/12V)	85dB	81dB	81dB	104dB
Tone	Continuous	Fast Pulse (3.5Hz)	Slow Pulse (1.5Hz)	Continuous
Operating Temperature (°C)	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C
Mounting style	Flange	Flange	Flange	PCB
Washable	No	No	No	Yes
Dimensions (dia x h x c)		41.8 x 16 x 50mm		49.1 x 28.9mm
Leadout length		140mm		N/A
Weight		14.6g		27.5g

212925.473259

Order Code	1+	10+	25+	50+	+	+
119-3667	9.22	8.81	8.36	7.55	--	--
119-3668	14.99	14.38	13.63	12.27	--	--
119-3669	14.13	13.55	12.84	11.56	--	--
119-3671	28.79	27.77	26.42	23.66	--	--

Piezo Buzzer - Flying Leads



- General purpose flange mounting piezo ceramic audio indicator
- Loud, clear, penetrating sound
- Wide input voltage range - low current

Order Code	119-3670
Mfrs List No.	KPEG-200A
Operating Voltage	3-20Vdc
Current Consumption (max @12V)	8mA
Sound output (min @30cm/12V)	88dB
Oscillating Frequency	3.1kHz
Operating Temperature	-30°C to +85°C
Weight	4.5g

212926.473258

Order Code	1+	10+	25+	50+	+	+
119-3670	9.67	9.26	8.80	7.92	--	--

Piezo Buzzer, Panel Mounting with Leads



A self contained solid state device that produces a sound when DC voltage is applied.

- Panel or base flange mounted
- Black in colour
- Housing material: ABS
- Fitted with 100mm flying leads

Rated Voltage	12Vdc	Colour	Black
Operating Voltage	1.5 - 16Vdc	Dimensions	Ø29.5mm D=24.5mm (17.2mm behind panel)
Rated Current (at rated V)	15mA	Mounting	Panel Cutout: Ø18mm
SPL (at 30cm at rated V)	95dB	Fixing Holes:	Ø3.5mm x 34mm
Resonant Frequency	3.5kHz (±500Hz)	Lead Length	100mm
Tone Type	Continuous	Weight	15g
Operating Temperature	-20°C to 60°C		
Housing Material	ABS		

Mfrs. List No.	Order Code	1+	10+	50+	100+
ABI-004-RC	130-0016	8.60	7.86	7.38	6.98

450733.473159

Panel Mounting Buzzer



- Bush mounting panel audio indicator
- Continuous and fast pulse
- Screw and fast on terminations

Dia=36.5, Body H=4, Bush H=19.5 Panel hole=31.75,
 Bush Dia=31.5, Nut Dia=37.8 Max panel thickness=12.54

Order Code	119-3639
Mfrs List No.	KPEG755
Operating voltage (V dc)	6-28
Tone	Continuous Fast Pulse (3Hz)

Sound Pressure Level, dB (@30cm)		
@ V _{min}	79	75
@ 12V dc	85	80
@ V _{max}	92	87

Operating current (mA)		
@ V _{min}	3	2
@ 12V dc	7	6
@ V _{max}	16	13
Operating Frequency (kHz)		3600Hz

212931.473266

Order Code	1+	10+	25+	50+	+	+
119-3639	45.89	44.18	41.89	38.34	--	--

Panel Mounting Buzzers - Extra Loud



- Bush mounting extra loud panel audio indicators
- Continuous, fast and slow pulse tones available
- DC or AC/DC non polar types available
- Screw and fast on terminations

Dia=42.5, Body H=20, Bush H=13
 Bush Dia=27, Nut Dia=38.7

Panel hole=28.57,
 Max panel thickness=3.17

Order Code	119-3654	119-3655	119-3656	119-3638	119-3660	119-3662
Mfrs List No.	KPEG-650SA	KPEG-651SA	KPEG-653SA	KPEG650SAN	KPEG-651SAN	KPEG-653SAN
Operating Type	DC Only	DC Only	DC Only	AC/DC	AC/DC	AC/DC
Rated Voltage	6V-28V	6V-28V	6V-28V	4V28V-	6V28V-	6V28V-
Tone	Continuous	Fast Pulse	Slow Pulse	Continuous	Fast Pulse	Slow Pulse

30cmMin Sound Pressure, dB (@)						
@ V _{min}	88	80	80	70	68	67
@ 12V dc	94	87	88	81	74	77
@ V _{max}	98	97	92	87	80	85
Current Consumption (mA)						
@ V _{min}	5	2	4	1	5	4
@ 12V dc	12	9	12	7	10	10
@ V _{max}	22	12	32	18	26	23

212932.473267

Order Code	1+	10+	25+	50+	+	+
DC Only Types						
119-3654	30.07	28.93	27.44	24.65	--	--
119-3655	33.74	32.36	30.84	27.64	--	--
119-3656	33.74	32.36	30.84	27.64	--	--
AC/DC Types						
119-3638	52.68	50.54	48.14	43.12	--	--
119-3660	45.86	44.09	41.96	37.66	--	--
119-3662	45.86	44.09	41.96	37.66	--	--

Waterproof Buzzer - PCB Pins

KPEG244



Model	KPEG244
Rated Frequency	5kHz
Operating Voltage	9 - 16V
Rated Voltage	12V
Current Consumption (Max)	35mA
SPL (12Vdc @30cm)	80dB
Operating Temperature	-30°C to +85°C

Dia, 14mm, L=9.5mm, Weight 5g
 PCB Pins: 2x 0.8mm, 7.6mm apart

450628.473203

Order Code	1+	10+	50+	100+
129-9872	17.97	14.33	13.08	11.73

Sounders - Buzzers & Sirens - continued

Waterproof Buzzers - Flying Leads

KPEG243 & KPEG267



Dia. 14mm. L=9.5mm. Weight 10g



Dia. 25.6mm. L=16mm. Weight 41g
Fixing Holes 2x 3.0mm, 32mm apart

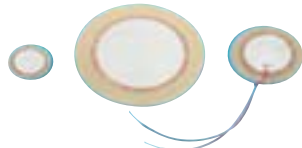
Model	KPEG243	KPEG267
Rated Frequency	5kHz	2.8kHz
Operating Voltage	9 - 16V	6 - 14V
Rated Voltage	12V	12V
Current Consumption (Max)	35mA	35mA
SPL (12Vdc @30cm)	80dB	85dB
Operating Temperature	-30°C to +85°C	-30°C to +85°C
Lead Length	80mm	100mm

450627.473202

Mfrs.	Order Code	1+	10+	50+	100+
List No.					
KPEG243	129-9870	13.12	10.50	9.54	8.67
KPEG267	129-9871	24.33	19.46	17.67	15.90

Loudspeakers - Component

Piezo Diaphragms



- Multi purpose Piezo diaphragms
- External drive
- Ultra low profile
- Applications include keyboards, office equipment, telephones and computer equipment

Order Code	119-2550	119-2552	119-2520
Mfrs List No.	7BB-12-9	7BB-35-3	7BB-20-6L0
Resonant Frequency	9kHz	2.8kHz	6.3kHz
Impedance kohm	1.0	200	1.0
Capacitance (nF)	8.0	8.0	10.0
Diameter (mm)	12	35	20
Height (mm)	0.1	0.3	0.2
Lead Length	—	—	50mm
Operating Temperature (°C)	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C

240105.473150

Order Code	1+	10+	50+	100+
119-2550	4.77	4.45	4.21	4.09
119-2552	9.88	9.08	8.64	8.33
119-2520	9.57	8.77	8.44	8.13

Mylar® Cone Speakers



Ø = 50, T = 18 PCL50M-2



H = 87, B = 87, T = 32 PCL85M

Three loudspeakers with a water resistant transparent Mylar cone making them ideal for portable or exterior equipment where moisture ingress is a problem. The 50mm and 87mm versions have a rubber sealing gasket and polyester suspension giving a high degree of water resistance. The 66mm gasket is a compressed card and should only be regarded as splashproof.

Other applications include speech synthesis and alarm panels.

Overall dia	50mm dia.	66mm dia.	86mm dia.
Depth	18mm	20mm	30mm
Gasket	Rubber	Card	Rubber
Max. power	2W	3W	8W
Rated power	1W	1.5W	8W
Impedance	8Ω	8Ω	8Ω
Frequency response	350Hz-7kHz	350Hz-4.5kHz	450Hz-4kHz
Cone diameter	45	59	79
Weight	50g	60g	250g
Fixing centres	—	—	100dia
Terminal type	Solder Tag	Solder Tag	Solder Tag

203857

Dimensions	Order Code	1+	10+	25+	100+
50mm dia.	107-297	18.81	16.63	15.72	14.52
66mm dia.	107-298	25.80	20.36	15.72	14.52
87 x 87mm	107-299	25.91	20.49	19.97	19.33

Miniature Speaker - Surface Mount

NDT-03C



W=15 H=15 D=4mm. Weight 1.6g

- Reflowable speaker with upper sound port
- Flat frequency response with greater volume
- Excellent durability in severe environments

Rated Frequency	800Hz ±100Hz
Nominal Input (@ 2Vrms)	0.5W
Impedance	8Ω ±1.6Ω
SPL (0.3W @10cm)	90dB ±3dB
Operating Temperature	-30°C to +85°C

450440.473236

Order Code	1+	10+	25+	50+	+
129-9760	8.42	8.02	7.85	6.98	—

Sub-Miniature Speakers

With flying lead,
H=8.5,
Dia=12.0
Lead length=50



PCB Mounting, H=8.5,
Dia=12.0
PCB mounting=6.5 x 1.0 Dia

- An electromechanical sound element with a good frequency response over the audio range, rendering it suitable for multitone and speech reproduction
- The device uses a fixed coil and a moving, magnetised diaphragm. An audio frequency waveform is required to drive the device

Operating voltage	1 to 5V ac (pk-pk)	Sound output at 100mm	85dB (A)
Current at 1.5 V ac	30mA	at 1.5V ac 2kHz	2048 Hz
Coil impedance at 2kHz	40Ω	Resonant Frequency	Operating Temperature (°C)
			-20°C to +60°C

212922.473436

Description	Order Code	1+	25+	100+	250+	+
Flying lead	119-1945	3.67	2.86	2.72	2.50	—
PCB Mounting	119-1946	3.75	2.92	2.76	2.56	—

Micro Loudspeakers

KDMG Series



KDMG10008C: Ø10mm D=2.9mm. Weight 0.6g



KDMG13008L: Ø13mm D=2.0mm. Weight 0.7g

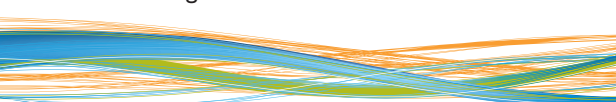
Model	KDMG10008C-03	KDMG13008L-02
Rated Input	0.3W	0.2W
Max. Input	0.5W	0.4W
Impedance	8Ω	8Ω
Resonant Frequency	1200Hz	1050Hz
Frequency Range	1200 - 20kHz	1050 - 20kHz
SPL (0.3W/10cm)	86dB min.	86dB min.
Operating Temperature	-20°C to +55°C	-20°C to +55°C

450677.473207

Mfrs.	Order Code	1+	10+	50+	100+
List No.					
KDMG10008C-03	129-9880	7.08	5.66	5.13	4.64
KDMG13008L-02	129-9881	2.00	—	—	—



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Miniature Speaker

SCG-16B-LS



- High sound pressure level
 - Thin profile
 - Suitable for mobile phones, PDAs etc
- Rated Frequency 780Hz $\pm$ 100Hz
Nominal Input (@ 1.55Vrms) 0.3W
Impedance $8\Omega \pm 1.2\Omega$
SPL (0.3W @10cm) 92.5dB $\pm$ 3dB
Operating Temperature -30°C to +70°C

Dia. 16mm. Depth=3mm. Weight 1.2g

450435.473235

Order Code	1+	10+	25+	50+	+
129-9759	8.11	7.73	7.55	6.94	--

Mini Speakers - Mylar Cone



ABS-209-RC



ABS-210-RC



ABS-215-RC

A dynamic speaker is an electro-mechanical device that uses a paper, mylar, cloth or metal cone with an attached coil to produce a tone.

Model	ABS-209-RC	ABS-210-RC	ABS-215-RC
Rated Impedance	$32\Omega \pm 15\%$	$8\Omega \pm 15\%$	$8\Omega \pm 15\%$
Power (nominal)	0.25 W	1 W	1.5 W
Power (max.)	0.5 W	1.5 W	2 W
Resonant Frequency	500Hz ($\pm 25\%$)	350Hz ($\pm 25\%$)	550Hz ($\pm 25\%$)
Frequency Range	500 - 5500Hz	350 - 20000Hz	550 - 4500Hz
SPL (at 10cm at 0.1W)	≥ 92 dB	≥ 94 dB	≥ 89 dB
Operating Temperature	-20°C to 60°C	-10°C to 40°C	-20°C to 55°C
Magnet Material	Nd-Fe-B	Nd-Fe-B	Nd-Fe-B
Dimensions	$\varnothing 45$ mm D=5.8mm	$\varnothing 50$ mm D=7.2mm	$\varnothing 50$ mm D=12.5mm
Weight	12g	13.2g	18g

450738.473164

Mfrs. List No.	Order Code	1+	10+	50+	100+
ABS-209-RC	130-0021	1.93	1.73	1.65	1.58
ABS-210-RC	130-0022	4.82	4.41	4.18	3.96
ABS-215-RC	130-0023	5.33	4.89	4.62	4.39

Miniature Speaker

Mylar Cone



- Small size
 - Very low profile
 - Broad frequency range
 - High reliability
- Mfrs. List No. ADS02008MR-R
Rated Input Power 0.08W
Maximum Input Power 0.2W
Frequency Range 750Hz - 5000Hz
Lowest Resonant Frequency 750Hz $\pm$ 150Hz
Impedance 8Ω
Dimensions $\varnothing 19.9$ mm x 4mm
Weight 2.3 g

338929.473092

Mfrs. List No.	Order Code	1+	10+	25+	50+	+
ADS02008MR-R	119-2972	7.96	7.09	6.44	5.81	--

Miniature Speakers

CQR COMPONENTS



Dia = 66mm

Depth = 19.6mm

Miniature speakers with paper cones and ferrite magnets suitable for use in small portable equipment.

Order Code	599-256	599-268
Output	0.3W	0.3W
Impedance	8Ω	64Ω
Frequency response	260Hz-4kHz	260Hz-4kHz
Weight	50g	50g
Terminal type	Solder Tab	Solder Tag

203856

Order Code	1+	25+	100+	+
599-256	4.19	3.80	3.57	--
599-268	5.14	4.70	4.34	--

Miniature Speakers

Paper / Mylar Cones



176-1629



176-1630



176-1631



A dynamic speaker is an electro-mechanical device that uses a paper, mylar, cloth or metal cone with an attached coil to produce a tone.

- Paper / Mylar speakers
- Paper speakers come with magnets
- Low profile
- Metal housings
- Operating Temperature = -20°C to 60°C

Order Code	Size (mm)	Maximum Power	Sound Output Level at 1W/1m	Resonant Frequency	Frequency Range	Rated Impedance
176-1629	28 5.6	3W	92 $\pm$ 3dB	550Hz	0-9kHz	8ohm
176-1630	36 4.6	1.2W	85 $\pm$ 3dB	550Hz	0-11kHz	8ohm
176-1631	20 5.8 40	3W	83 $\pm$ 3dB	400Hz	200-20kHz	4ohm

551165

Cone	Order Code	1+	10+	50+	100+
Paper	176-1629	5.62	5.40	5.20	4.91
Mylar	176-1630	4.67	4.52	4.32	4.08
Paper	176-1631	3.41	3.27	3.18	2.97

Microphone - Component

Electret Condenser Microphones

Omnidirectional



150-2741



150-2742



150-2744



	KECG2742CBL-A	KECG2742PBL-A	KECG2742TBL-A
Sensitivity	-42dB $\pm$ 3 (f = 1kHz, 1Pa 0dB=1V/Pa)		
Operating Impedance	2.2k Ω	2.2k Ω	2.2k Ω
Operating Voltage	2V dc	2V dc	2V dc
Max. Voltage	10V dc	10V dc	10V dc
Max. Current Consumption	0.5mA (V_s = 2V dc)	0.5mA (V_s = 2V dc)	0.5mA (V_s = 2V dc)
Frequency Range	100Hz - 20kHz	20Hz - 20kHz	20Hz - 20kHz
Signal-to-Noise-Ratio (SNR)	58 dBA	58 dBA	60 dBA
Material	AL	AL	AL
Operating Temperature	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
Connection	Contacts	Gold plated pins	Terminals
Dimensions (Dia. x D)	$\varnothing 6$ x 2.7mm	$\varnothing 6$ x 2.7mm	$\varnothing 6$ x 2.7mm
Weight	0.3g	0.17g	0.2g

495239

Mfrs. List No.	Order Code	1+	10+	100+	250+
KECG2742CBL-A	150-2741	2.53	2.22	1.98	1.70
KECG2742PBL-A	150-2742	2.63	2.31	2.02	1.75
KECG2742TBL-A	150-2744	2.53	2.22	1.98	1.70

Microphone Elements - PCB Mount

Omni Directional



- Omni directional response
- PCB mount design
- Super clarity, distortion-free response
- Compact design

Microphone - Component - continued

Microphone Elements - PCB Mount - continued

Omni Directional - continued

Mfrs. List No.	Order Code	Diameter (mm)	Height (mm)	Power Supply (Vs)	External Resistor Loading (kΩ)	Sensitivity	Tolerance
TOM-1545P-R	119-3008	4	1.5	2	2.2	-45dB	±3
ROM-2238P-NF-R	119-3009	5.8	2.2	2	2.2	-38dB	±3
ROM-2244P-NF-R	119-3010	5.8	2.2	2	2.2	-44dB	±3
POM-2244P-2-R	119-3011	6	2.2	2	2.2	-44dB	±3
POM-2246P-2-R	119-3012	6	2.2	2	2.2	-46dB	±3
POM-2738P-R	119-3013	6	2.7	2	2.2	-38dB	±3
POM-3042P-R	119-3017	6	3	2	2.2	-42dB	±3
POM-3044P-R	119-3018	6	3	2	2.2	-44dB	±3
POM-3046P-R	119-3019	6	3	2	2.2	-46dB	±3
POM-3542P-R	119-3020	6	3.5	2	2.2	-42dB	±3
POM-3546P-R	119-3022	6	3.5	2	2.2	-46dB	±3
POM-5238P-R	119-3023	6	5.2	2	2.2	-38dB	±3
POM-5242P-R	119-3024	6	5.2	2	2.2	-42dB	±3
POM-5246P-R	119-3025	6	5.2	2	2.2	-46dB	±3
AOM-4540P-R	119-3026	9.7	4.5	1.5	2.2	-40dB	±3
AOM-4540P-NF-R	119-3027	9.7	4.5	1.5	2.2	-40dB	±3
AOM-4542P-R	119-3029	9.7	4.5	1.5	2.2	-42dB	±3
AOM-4544P-2-R	119-3032	9.7	4.5	1.5	2.2	-44dB	±3
AOM-4544P-NF-R	119-3033	9.7	4.5	1.5	2.2	-44dB	±3
AOM-6545P-R	119-3036	9.4	6.5	4.5	1	-45dB	±3
AOM-6738P-R	119-3037	9.7	6.7	1.5	2.2	-38dB	±3
AOM-6746P-R	119-3039	9.7	6.7	1.5	2.2	-46dB	±3
POM-1644P-NF-R	119-3040	6	1.6	2	2.2	-44dB	±3

339021.473095

Mfrs. List No.	Order Code	1+	10+	25+	50+
TOM-1545P-R	119-3008	7.47	6.67	6.06	5.56
ROM-2238P-NF-R	119-3009	2.90	2.59	2.35	2.12
ROM-2244P-NF-R	119-3010	2.85	2.55	2.31	2.09
POM-2244P-2-R	119-3011	6.56	5.80	5.30	4.77
POM-2246P-2-R	119-3012	2.90	2.59	2.35	2.12
POM-2738P-R	119-3013	4.96	3.15	2.14	1.73
POM-3042P-R	119-3017	4.44	2.81	1.91	1.60
POM-3044P-R	119-3018	5.93	5.26	4.76	4.29
POM-3046P-R	119-3019	4.44	2.81	1.91	1.60
POM-3542P-R	119-3020	4.44	2.81	1.91	1.58
POM-3546P-R	119-3022	4.44	2.81	1.91	1.58
POM-5238P-R	119-3023	3.70	3.24	2.98	2.68
POM-5242P-R	119-3024	3.70	3.24	2.98	2.68
POM-5246P-R	119-3025	3.70	3.24	2.98	2.68
AOM-4540P-R	119-3026	3.37	3.01	2.72	2.42
AOM-4540P-NF-R	119-3027	3.00	2.67	2.42	2.19
AOM-4542P-R	119-3029	3.37	3.01	2.72	2.42
AOM-4544P-2-R	119-3032	3.18	2.83	2.57	2.27
AOM-4544P-NF-R	119-3033	3.30	2.95	2.67	2.37
AOM-6545P-R	119-3036	3.37	3.01	2.72	2.42
AOM-6738P-R	119-3037	1.49	1.29	1.18	1.06
AOM-6746P-R	119-3039	3.18	2.83	2.57	2.27
POM-1644P-NF-R	119-3040	7.82	6.97	6.33	5.67

Omni-Directional Electret Condenser Microphones



- Highly efficient electrical specifications
- Industry standard sizes
- Omni-directional
- Solder pad / PCB pin termination
- Integrated capacitors for RF filtering
- Standard Operating Voltage: 2V
- Maximum Operating Voltage: 10V
- Output impedance (F = 1KHz 1Pa) = <2.2KΩ
- Applications - Corded and cordless phones, PDAs, notebooks, mobile phones, headsets

Order Code	Diameter	Height	Sensitivity @ 1kHz (dB re 1V/1Pa)	Max. Current Consumption	Termination
173-6558	4	1.5	-42±3 dB	0.5mA	Solder Pads
173-6559	6	2.2	-40±3 dB	0.5mA	PCB Pins
173-6560	6	2.2	-40±3 dB	0.5mA	Solder Pads
173-6561	6	2.2	-42±3 dB	0.5mA	Solder Pads
173-6562	6	2.7	-41±3 dB	0.5mA	Solder Pads
173-6563	9.7	4.5	-41±3 dB	0.5mA	PCB Pins

551149

Order Code	1+	10+	100+	500+	1K+
173-6558	6.80	5.67	4.63	3.82	3.14
173-6559	2.75	2.36	2.08	1.80	1.62
173-6560	3.08	2.57	2.20	1.89	1.74
173-6561	1.77	1.65	1.55	1.38	1.25
173-6562	2.57	1.93	1.77	1.64	1.52
173-6563	1.55	1.41	1.28	1.15	1.08

Uni-Directional Electret Condenser Microphones



New



- Highly efficient electrical specifications
- Industry standard sizes
- Uni-directional
- Solder pad termination
- Integrated capacitors for RF filtering
- Standard Operating Voltage: 2V
- Maximum Operating Voltage: 10V
- Output impedance (F = 1KHz 1Pa) = <2.2KΩ
- Applications - Corded and cordless phones, PDAs, notebooks, mobile phones, headsets

Order Code	Size (mm) Diameter	Height	Sensitivity @ 1kHz (dB re 1V/1Pa)	Frequency Range	Max. Current Consumption
173-6564	6	2.2	-47±3 dB	50-16000Hz	0.5mA
173-6566	9.7	5	-47±3 dB	100-10000Hz	0.5mA

551156

Order Code	1+	10+	100+	500+	1K+
173-6564	6.94	5.42	4.96	4.27	3.96
173-6566	4.73	4.24	3.69	3.32	3.06

Noise Cancelling Electret Condenser Microphones



New



- Highly efficient electrical specifications
- Industry standard sizes
- Noise Cancelling
- Integrated capacitors for RF filtering
- Solder pad termination
- Standard Operating Voltage: 2V
- Maximum Operating Voltage: 10V
- Output impedance (F = 1KHz 1Pa) = <2.2KΩ
- Applications - Corded and cordless phones, PDAs, notebooks, mobile phones, headsets

Order Code	Size (mm) Diameter	Height	Sensitivity @ 1kHz (dB re 1V/1Pa)	Frequency Range	Max. Current Consumption
173-6567	4	1.5	-46±3 dB	50-16000Hz	0.5mA
173-6568	6	2.2	-44±3 dB	50-16000Hz	0.5mA
173-6569	9.7	5	-40±3 dB	100-10000Hz	0.5mA

551165

Order Code	1+	10+	100+	500+	1K+
173-6567	5.37	4.29	3.82	3.28	3.00
173-6568	3.75	3.33	2.91	2.63	2.40
173-6569	2.65	2.42	2.17	1.85	1.69

Waterproof Microphones MR Series



- Highly waterproof - no loss of performance after immersion in 15m water
- Corrosion resistant
- Withstands explosive decompression
- Excellent environmental performance
- Leads attached
- High resistance to Mechanical Shock

Mfrs. List No.	Sensitivity @ 1kHz (dB re 1V/1Pa)	"A" Weighted Noise (max. @1kHz SPL)	Nominal Output Impedance	Max. DC Supply Current	Size (mm) Dia. Depth Lead, L
MR23151	-87.5dB ± 3dB	30dB	300Ω	50μA	22.12 9.3 193
MR28406	-60dB ± 2dB	30dB	3500Ω	1.3V	22.12 7.6 202

450567.473350

Mfrs. List No.	Order Code	1+	5+	10+	50+
MR23151	130-0699	80.00	76.12	72.53	68.88
MR28406	130-0700	109.65	104.41	99.43	94.52

Cable Assemblies

S-Video Leads - Professional

VDC



- Extended distance S-video cable for use with S-VHS equipment
- Precision twin 75 ohm coaxial cores
- Overmoulded design for reliability
- Breakout adaptor allows standard BNC cables to be used

224291

Male to Male		Mfrs.		Price Each		
Length	List No.	Order Code	1 +	5 +	10 +	
0.5m	110-178	310-3742	34.32	31.13	28.60	
1m	110-024	310-3754	40.50	36.65	33.62	
3m	110-025	310-3766	58.75	53.18	48.90	
5m	110-026	310-3778	73.41	66.46	61.03	
10m	110-027	310-3780	110.43	99.94	91.73	
15m	110-179	310-3791	154.15	139.00	127.62	
20m	110-180	310-3808	197.10	178.15	162.99	
Breakout adaptor						
2xBNC to S-VHS PLUG	110-028	310-3810	92.62	83.78	76.95	

3 x Phono Plugs to 3 x Phono Plugs



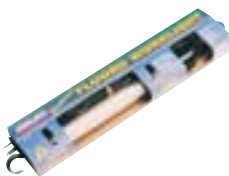
For stereo audio and video connections.

246430

		Price Each			
Length	Order Code	1 +	10 +	25 +	100 +
1m	371-2497	5.40	5.11	4.61	4.06
2m	371-1596	6.44	6.17	5.55	4.91
3m	371-1602	7.11	6.82	6.15	5.52
5m	371-2503	12.65	12.08	10.89	9.60
7m	425-8617	12.77	10.63	10.43	10.03
10m	425-8629	14.49	11.25	10.96	10.57
15m	425-8630	16.96	14.10	13.82	13.24
25m	425-8642	21.20	18.74	18.33	17.70

Compact Fluorescent Lamps

Work Light - Fluorescent



Energy saving 11W, PL type fluorescent tube. Compact workshop light. Available 240V mains supply.

337/02

Mfrs.		Price Each			
List No.	Voltage	Order Code	1 +	5 +	10 +
WL11	240V ac	782-270	61.00	55.10	49.50

Illuminated Magnifiers

22W Slimline Magnifying Lamp



White

Chrome

- Professional quality magnifying lamp with a modern slimline design
- 'Quick Swap' system enables the change of magnification in seconds
- Two lenses included (1.75x and 2.25x) for intricate work
- Energy saving tube reduces eye strain and glare
- Heavy-duty metal arm with internal safety springs
- Flicker-free electronic ballast
- Supplied with table clamp

Light Source
Voltage
Magnification
Lens Diameter
Arm Length
Weight

22W Daylight Circular Fluorescent Tube
230V
1.75x / 2.25x
130mm
840mm
2.62kg

483346

		Price Each	
Order Code		1 +	3 +
Magnifying Lamp - White	145-4473	339.10	325.42
Magnifying Lamp - Chrome	184-9872	170.00	163.04
Accessories			
Table Base	145-4485	149.77	140.87
Screw Down Bracket	352-1620	36.34	--
Wall Bracket	352-1679	36.34	--
Drawing Board Clamp	875-9170	36.50	36.45
Spare Lamp (22W G10q)	145-7215	25.50	23.75

5" Magnifying Lamp



- Slim head design for improved viewing area
- High quality 13cm lens for detailed work
- Supplied with tube, table clamp and lens cover
- Arm length: 98cm

612334

Mfrs.		Price Each	
List No.	Order Code	1 +	
Metric			
MAGNIFYING LAMP, 22W, 5"	AN1020	180-0572	116.73

Slimline Lamp



- Long life 11 watt/T2 tube (equiv. 60w)
- Fully adjustable arm with 90cm reach
- Height adjustable from 15 - 55cm
- Supplied with table clamp

615352

Mfrs.		Price Each	
List No.	Order Code	1 +	
Metric			
TABLE LAMP, 11W, ULTRA SLIM	A32107	180-0571	159.18

28W Ultra Slim Magnifying Lamp



- Powerful 28W Daylight™ energy saving tube
- Large 17.5cm lens
- Flicker-free electronic ballast
- High quality metal arm
- Sturdy metal clamp to attach the lamp to a desk or a table
- New head-joint to smoothly direct the light
- New "Quick Lens Swap" system, change for a higher magnification in seconds without any tools. 3 lenses available separately

616716

Mfrs.		Price Each	
List No.	Order Code	1 +	
MAGNIFYING LAMP, 28W ULTRA SLIM	A22020-01	171-6866	272.73

Work and Inspection Lighting

General Purpose 12V



H=239, W=162, D=92

Voltage
Current
Bulb type

12V
4.6A
H3 55W

Recommended fuse
Minimum Cable Size

8A
1mm²

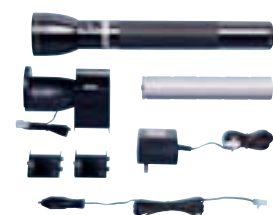
212026

		Price Each		
Order Code		1 +	4 +	20 +
Bracket Mount	551-090	79.60	76.06	73.41
Magnetic Mount	551-107	185.71	177.84	171.32

Torches

Mag Charger®

Rechargeable Flashlight System



Kit contains:

- Rechargeable flashlight
- Charging cradle
- Rechargeable battery (NiMH)
- Mounting brackets (x2)
- 12V adapter (automobile)
- 230V converter (Euro)
- 240V converter (UK)

New

- Easily replaced high-intensity halogen lamp
- 1/4 turn, cam action focus, spot-to-flood
- Self-cleaning rotary switch, 3 position, On, Off, and Signal (Manual, Momentary On-Off)
- Charger operates on A/C or D/C current
- Flashlight can be charged in any position

- Highly polished, scientifically designed, metallic reflector, with-stands extreme temperatures
- Tempered glass lens
- Durable extra hard anodized finish

605689

Order Code	1+	5+	10+
180-0202	280.43	270.61	267.90

Mini-Maglite®

2 cell AAA



L = 128, D = 108

- Pocket torch with key-ring hole in tail cap
- Supplied in presentation case with 2 AAA batteries and Pocket Clips

212081

Colour	Order Code	1+	5+	10+
Black	316-1365	55.24	50.48	46.68
Red	315-5754	59.79	54.64	50.52
Silver	315-5766	59.79	54.64	50.52
Blue	315-5778	59.79	54.64	50.52
Grey	180-0199	30.11	28.60	26.88

Price Per Pack

		Price Per Pack		
		1+	5+	10+
Replacement bulb (pk of 2)	426-8416	22.17	20.44	19.70

Mini-Maglite®

2 cell AA



- Made from machined aluminium
- Pocket torch with key-ring hole in tail cap
- Supplied in presentation case with 2 AA batteries

L = 145, D = 22

212082

Colour	Order Code	1+	5+	10+
Black	316-1377	51.66	49.05	46.91
Red	315-5079	51.66	49.05	46.91
Silver	315-5080	51.66	49.05	46.91
Blue	315-5092	51.66	49.05	46.91
Grey	180-0200	34.91	32.81	30.57
Pink	180-0201	34.91	32.81	30.57

Price Per Pack

		Price Per Pack		
		1+	5+	10+
Replacement bulb (pk of 2)	426-8416	22.17	20.44	19.70

AA Cell 3W LED Torches

MAGLITE LED



- Projecting beam that focuses simply by rotating the head
- Balanced Optics™ provide a focusing, 3 watt LED optimized to produce a powerful beam
- Supplied with belt holster and batteries

450202.437406

Description	Order Code	1+	5+
2 x AA			
Black	129-8404	83.87	79.67
Grey	129-8405	119.84	110.51
3 x AA			
Black	129-8402	133.06	126.35
Grey	129-8403	133.06	126.35

Energizer PROSW2A LED Torch

Energizer

New



- 1 Watt Cree LED 75 Lumens
- 2 Red LEDs - Low level light
- 1 Green LED - Increased visibility of imperfections in pipes
- 5 Hours run time
- Waterproof and shatterproof from 6.1M
- Runs on 2 AA batteries (Included)
- Head rotates 125°
- Sturdy clip attaches to belt
- Flat base stands on surface hands free
- Lifetime Manufacturers Guarantee

532392

Description	Mfrs. List No.	Order Code	Price Each 1+
TORCH, 4 LED SWIVEL HEAD HARD CASE	PROSW2A	169-8169	51.11

AA Maglite® LED Upgrade Kit

NITE IZE



- An LED upgrade for any AA Maglite®
- Replaces conventional bulbs with the latest LED technology
- LED module extends battery life by up to 4 times
- Provides a brilliant white light
- 10 year LED life (100,000 hours burn time)
- Simply slots into the torch
- Available either on its own or with a handy push-button tail cap

NB. Torch not provided

419093.419096

Description	Order Code	1+	5+
LED Module	109-7700	34.80	32.86
LED Module + Tail Cap	109-7699	35.96	33.89

MityLite™ - Intrinsically Safe Torch

Hostile Environments

PELI



L = 120, Dia = 23

The smallest submersible torch in the Peli range. Ideal as a general utility pocket torch. Supplied with light bending accessory to facilitate inspection of those difficult to see areas. Massive 6,000 candlepower output.

- Submersible to 150m
- ATEX Approved (Zone 2)
- Pre-focused Xenon beam
- Compact, just 12cm long

- Complete with light bender and 2 AAA batteries
- Lifetime guarantee
- Available in black or high visibility neon yellow

212036

	Order Code	1+	6+	12+
MityLite, Black	677-395	61.16	58.36	55.87
MityLite, Neon Yellow	677-401	61.16	58.36	55.87
Replacement Lamp Module	677-413	25.60	24.46	23.32

StealthLite™ Torch

Hostile Environments

PELI



The Peli StealthLite is a rugged, all purpose, lightweight worklight. It features a switch locking mechanism to prevent accidental switching on and subsequent battery drainage. The pre-focused Xenon lamp produces a bright, collimated 10,000 candlepower beam.

L=165.1

- One handed safety switch operation
- ATEX approved to Zone 2
- Pre-focused Xenon beam
- Watertight to 600 feet
- Shock mounted battery compartment
- Tough ABS body
- Uses 4 AA batteries (Included)

212038

	Order Code	1+	6+	12+
StealthLite Black	677-449	84.04	78.86	74.69
StealthLite Yellow	677-450	75.81	71.11	67.36

StealthLite™ Submersible LED Torch Recoil™ LED



- A tough, submersible torch utilising the innovative Recoil LED Technology™
- All of the LED light is directed back onto a reflector that in turn reflects forward and provides a truly focused beam of pure white light
- 1W Luxeon LED - 10,000 hours average life
- Submersible to 150 metres
- ABS resin body and high-impact nylon lens
- Side-mounted switch for one-handed operation
- Supplied with 4 x AA batteries
- Manufacturer's unconditional guarantee
- Length: 178mm

493063.441287

	Order Code	1+	3+
	151-8052	152.27	139.18

5 LED Aluminium Flashlight



- CNC machined from solid aircraft grade aluminium
- Fitted with 5 x high intensity, super-bright white Nichia LEDs - 100,000 hours average life
- Crystal LED reflector
- Light can be seen from more than 3000m distance
- Nickel-plated rotary switch built into the head
- Energy-efficient electronics give up to 10 times more battery life
- Powered by 2 x AA batteries (supplied)
- Dimensions (LxDia): 165 x 30mm

450714

	Order Code	1+	5+
	130-1065	92.53	86.96

Torche 5 LED



Battery Life:
1.5 hours ON 100% brightness
3.5 hours ON 10% brightness
9 hours SOS flashing

- LED Type: XC-P Cree White LED
- LED Focus Control: 1 x flood, 4 x spot
- 120 Lumens
- Dimming Control: 100% to 10% brightness
- Battery Type: 2 x 1.5V AA Duracell Alkaline Batteries (included)
- Size: 31mm x 163mm
- Weight: 180g (including batteries)
- Quick / SOS flashing capability
- Water resistant
- Tactical switch style operation
- Contoured hatch grip body

610174

	Order Code	1+	5+
Mfrs. List No.	UK164	71.91	69.23

Tactical LED Flashlight



- LED Type: New Cree XP-C (Q2)
- 60 Lumens
- Battery Type: 1 x 1.5V AA size Duracell Alkaline battery (included)
- Battery life: Highly sophisticated electronics allows up to 24hrs continuous use
- Solid grade aluminium
- Tactical tail cap push button switch operation
- Size: 28mm x 104mm
- Scientific collimator optical reflector lens
- Visible from more than 3000m
- Nylon pouch (included)
- Nylon strap (included)

610228

	Order Code	1+	5+
Mfrs. List No.	UK176	34.49	33.19

'Hardcase' LED Torch

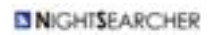


- Tough and durable body with shatter-proof lens
- Will survive a 10m drop
- Bright white LED - 8,000 hours life
- Waterproof
- Push button switch
- Requires 2 x AA batteries (not supplied)
- Supplied with a fabric belt pouch
- Length: 170mm

433422.433218

	Order Code	1+	5+
	118-8564	28.82	27.60

LED Torch with Ultraviolet



This compact and lightweight flashlight utilises the latest in UV technology. With a 1W powerful LED emitting an ultra violet beam this product is designed specifically for forensic applications and crime investigation. Manufactured in durable aluminium casing, it is water and shock resistant.

- 1W high powered UV LED
- 2 x CR123A batteries (not included)
- Running time: 3.5 hours / 6 hours
- Wavelength: 390 - 395nm
- Designed for forensic applications
- Durable aluminium casing
- Water and shock resistant
- Tail cap tactical switch
- Length: 132mm
- Head diameter: 33.5mm
- Weight: 144g (inc. batteries)

610172

	Order Code	1+	5+
	182-3957	101.88	98.17

Flexible Inspection Pen Lights



- Flexible, insulated and shielded cable extension allows 14" of reach
- High intensity 100,000 hour LED bulb visible for 1 mile
- Run time of up to 60 hours
- Momentary blink or constant on
- Waterproof
- Lifetime manufactures warranty

333466.310981

	Order Code	1+	5+
Description	Black	152.08	140.48
	Blue	152.08	140.48

Torches - continued

Duracell Floating Lantern G600

DURACELL


- Floats when placed in water
- Bright wide beam
- 8 position stand
- Storage compartment in handle
- Rubber grip
- Suitable for boating, camping and out-door activities
- 6V battery not included order 381-5330
- Colour may vary

475710

Description	Mfrs. List No.	Order Code	1+	12+	24+
TORCH, FLOATING LANTERN	G600	138-2653	14.19	--	--
Battery 6V c/w spring	MN908	381-5330	19.18	16.66	15.04

Torches - Head

2610 LED Headtorch



- Hands-free light
- Can be helmet mounted using rubber strap (included)
- Choice of 1 or 3 LEDs
- Offers up to 150 hours battery life
- 100,000 hours lamp life
- Just 96 grams in weight
- 3 AAA batteries (included)
- Ex II 2 G, Eex ia IIB T1



The 2610 headtorch is a tiny headlamp weighing just 96grams. It features a dual light source; one LED offers 150hours of battery life and 3 LEDs give 80 hours of battery life with an LED life of 100,000 hour life.

339190

Description	Order Code	1+	5+
LED Headlamp	507-4344	59.38	56.39

2690 HeadsUp™ LED Zone 0



- Ex Code: ATEX Ex II 1D/G Ex ia IIC T4, Ex iaD20 IP65 T65°
- Easy Twist switch operation
- Compact, lightweight headlamp
- Rubber strap and cloth included
- Tested Lumen Value: 60
- Power: 1 Watt
- 3 x AAA batteries (included)
- 10 hours battery burn time
- Length: 71mm



Price Each

545062

Order Code	1+	5+
175-3235	86.37	83.84

Halogen + LED Headlamps



- Hands-free light
- Can be helmet mounted using rubber strap (included)
- LED lamp for close-up light and long battery life
- Halogen lamp gives powerful beam
- Balanced battery compartment stored at the rear of the head
- 4xAA batteries (supplied)



A range of headlamps that gives you a choice of 2 light sources: the LEDs offer long-lasting light while the alternative halogen lamp offers a powerful 10,000 candlepower beam. The head tilts to direct the light exactly where it is needed.

339191

Description	Order Code	1+	5+
2640 - 4xAA Cells	507-4356	114.24	109.10
Spare Lamp module	507-4370	14.94	13.77

Tikka Headtorch



- Extremely small headlamp
- Very long burn time (150+ hours)
- LED technology
- Emits even, clean, white beam
- Ideal for close-up work
- Only 70g in weight
- Requires 3 x AAA batteries (included)

333343.262438

Order Code	1+	+
471-5913	64.43	--

6 LED Headlight



- Compact, lightweight headlight with 6 LEDs
- Bright white and red LEDs - 8,000 hours life
- Four lighting options:
 - 2 focused white LEDs for spot projection
 - 2 wider positioned white LEDs for flood beam
 - 4 white LED combined option for maximum light output
 - 2 red LEDs for night vision
- Multiple position push-button switch
- Swivel adjustment
- Weatherproof
- Runs up to 50 hours on Energizer Max batteries
- Requires 3 x AAA batteries (supplied)
- Torch Head Dimensions (HxW): 45 x 70mm

433426.433233

Order Code	1+	5+
118-8569	44.08	40.62

ATEX LED Headlight



- 80 lumens
- 2 red LEDs (night vision)
- 1 green LED (pipe inspection)
- Adjustable light (from spot to diffuser)
- Weatherproof IPX4
- 2m drop test
- 60m beam distance



- Shatterproof Lens
- ATEX certified
- 3 x AA batteries needed not included
- Ex I M2 / II 1 G, EEx ia I/II T4, DEMKO 08, ATEX 0803999

553282

Mfrs. List No.	Order Code	1+	5+
632026	177-5676	92.63	87.84

LED Head Lamp



Lightweight 4 LED headlamp with two light modes - spot and red for night vision. This weather-proof light is suitable for outdoor use in any weather.

- Meets IEC 60529 IPX4 standards
- Lamp Output: 28 lumens (Spot)
- Beam Distance: 22 metres Spot
- Run Time: 21 hours Spot, 38 hours Night Vision
- Power Source: Three "AAA" Alkaline
- Typical Weight: 88.8 grams (without batteries)

604794

Mfrs. List No.	Order Code	1+
HD4L33AE	179-9648	103.57

LED Head Torch



- Compact LED headtorch
- 12 x high intensity LEDs (100,000 hours average life)
- 4 mode operation - 4 LED, 8 LED, 12 LED, 12 LED Flashing
- Adjustable head strap with padded front section for comfort
- Adjustable position head for work area focus



- Torch head dimensions (WxHxD): 70 x 55 x 60mm
- Requires 3 x AAA batteries (not supplied- part number 1712514)

476132/544730

Price Each			
Order Code	1+	5+	
173-6638	14.00	12.33	

LED + Xenon Headlamps



- Headlamp with dual light sources, Xenon halogen bulb + 3 LEDs
- Suitable for users who need the advantages of both a bright, long range beam and efficient LED lighting
- Perfectly balanced, it positions itself naturally and sits nicely on the head
- Ideal for all outdoor sports enthusiasts

- 100m maximum range with Xenon halogen bulb, 15m LEDs
- Ergonomic head bands in adjustable synthetic elasticized material
- LEDS have 100,000 hours of continuous burn time, will never need replacement
- Supplied with Xenon halogen bulb and 4x AA batteries

333335.276210

Price Each			
Description	Order Code	1+	5+
3xLED Headlight	471-5767	119.53	114.85
Accessories			
Xenon halogen bulb	471-5779	11.40	10.96
Helmet clips	471-5901	6.26	6.07

Torches - Hazardous

MityLite Zone 1



The MityLite zone 1 is the intrinsically safe version of the popular MityLite torch. An ideal pocket torch for use in hazardous areas, it is compact, submersible and corrosion-proof

- Submersible to 150 metres
- Compact, just 12cm long
- Pre-focused Xenon beam
- Unbreakable Xenon body
- 2x AAA batteries (included)
- Ex II 2 G, Ex ia IIB T5

339189

Price Each			
Description	Order Code	1+	5+
MityLite	507-4332	63.40	58.40
Spare Lamp module	677-413	25.60	24.46

3610 Little Ed™ Recoil LED Zone 1

Right Angle



- Ex Code: ATEX: Ex II 2 G Ex ib IIB T4
- 1 Watt Luxeon Lambertion LED using Recoil LED technology™
- One handed safety switch operation
- Rugged ABS body with polycarbonate lens
- Powerful right angle light
- Stainless steel clip and key ring for hands free operation
- Tested Lumen Value: 32
- Power: 1 Watt
- 4 X AA alkaline batteries (not included)
- 32hr battery burn time
- Water resistant
- Length: 191mm

545064

Price Each			
Order Code	1+	5+	
175-3237	222.69	216.62	

3600 Little Ed™ Zone 1



- Ex Code: ATEX: Ex II 2 G EEx e ib IIC T4
- High performance Xenon lamp
- One handed safety switch operation
- Rugged ABS body with polycarbonate lens
- Powerful right angle light
- Stainless steel clip and key ring for hands free operation
- 4hr battery burn time
- Water resistant
- Length: 191mm

- Tested Lumen Value: 25
- Power: 3.2 Watts
- 4 X AA alkaline batteries (included)

545063

Price Each			
Order Code	1+	5+	
175-3236	142.26	136.74	

2410 Stealthlite™ Recoil LED Zone 1



- Ex Code: ATEX Ex II G Ex ib IIB T4
- Watt Luxeon Lambertion LED using Recoil LED Technology™
- One-handed safety switch
- 32hrs battery burn time
- Waterproof
- Length: 178mm

- Rugged ABS body and polycarbonate lens
- Adjustable lanyard
- Tested Lumen Value: 32
- Power: 1 Watt
- 4 x AA alkaline batteries (not included)

545061

Price Each			
Order Code	1+	5+	
175-3234	185.44	176.67	

2220 Versabrite™ III LED Zone 1



- Ex Code: ATEX Ex II 2 G EEx ib IIC T6
- 2 X 5mm White Nichia LEDs
- Head flips up to activate LEDs and rotates 180 for aiming light where you need it
- Body made of virtually indestructible Xylex®
- Multiple use built in clip
- Attaches to surface up to 10mm thick

- Tested Lumen Value: 6
- Power: 0.6 Watts
- 2 x CR2032 3v Lithium coin-cell Batteries (included)
- 100 hours of battery burn time
- Length: 89mm

545059

Price Each			
Order Code	1+	5+	
175-3233	60.73	58.47	

Super SabreLite Zone 1



A robust, reliable and submersible torch with fail-safe switching mechanism. This torch will withstand the most rugged of treatment. Used by firefighters and special forces worldwide. Encapsulated lamp module for additional safety in hazardous areas. T4 temperature rating and anti static coating.

- Submersible to 150 metres
- Impact protection battery tray
- Pre-focused Xenon beam
- Powerfull 12,000 candlepower beam
- Uses 3x C-cell batteries (not supplied)
- Ex II 3 G, Ex N II C T4

339180

Price Each			
Description	Order Code	1+	5+
Super SabreLite Torch	507-4290	159.33	146.46
Spare Lamp module	507-4307	46.18	42.50

ATEX LED Torch



- ATEX Approved for explosive gas and dust atmospheres
- LED light source 'fitted for life', no bulb replacement required
- High output focussed spot beam with wide angle fringe of light
- Over 7.5 hours high power output from 4 x AA primary cells
- Compact and lightweight torch design
- Low battery indicator fitted on TR-40+ model
- Zone 0 version available
- All models with Group I Mining Approval

Mfrs List No.	Ex Code	Industrial Mining	Gas	Area of Classification	Dust	Ambient Temperature	Certificate	Light Source
TR-40	II 2 GD Ex ib IIC T4/T3 ID A21 IP67	M2 Ex ib I IP67	T4 / T3	Zones 1 and 2Gas groups IIA, IIB, IIC	Zones 21 and 22	-20°C to +40°C	Baseefa07ATEX0091IECEX BAS 06.0089	High Power LED
TR-40+	II 1 G Ex ia IIC T4/T3 IP67	I M1 Ex ia I IP67	T4 / T3	Zones 0, 1 and 2Gas groups IIA, IIB, IIC	-	-20°C to +40°C	-	High Power LED
TR-45	II 1 G Ex ia IIC T4/T3 IP67	I M1 Ex ia I IP67	T4 / T3	Zones 0, 1 and 2Gas groups IIA, IIB, IIC	-	-20°C to +40°C	-	High Power LED

Torches - Hazardous - continued

ATEX LED Torch - continued

LED Lamp Life	25,000 hours	25,000 hours	25,000 hours
Battery Type	4 x 1.5V AA	4 x 1.5V AA	4 x 1.5V AA
Light Duration	Up to 7.5 hours to low battery warning, up to 32 hours total illumination		
Dimensions	Length 195mm	195mm	195mm
	Depth 80mm	80mm	80mm
Weight	0.35kg	0.35kg	0.35kg

605697

Price Each

Mfrs. List No.	Order Code	1+	5+
TR-40	181-3071	159.50	154.08
TR-40+	181-3072	178.43	172.37
TR-45	181-3073	191.43	184.93

ATEX Safety Penlite



- ATEX explosive gas and dust approved
- convenient pen style allows single-handed operation
- Uses standard AAA batteries
- Positive feel click switch

A handy pen torch for use in hazardous areas, CE marked in compliance with the 94/9/EC Explosive Atmospheres (ATEX) directive, for use in a wide range of potentially explosive gases, vapours, mists and dusts.

Ex Code	II 2 G EEx e ia IIC T4
Temperature class (gas)	T4
Apparatus standard	EN50014, EN50019, EN50020
Area of classification (gas)	Zones 1 & 2 Gas Groups IIA, IIB, IIC
Ambient temperature	-20°C to +40°C
Certificate	TUV00ATEX1529
Bulb type	2.25V, 1.2 watts, Vacuum filament
Peak luminous intensity at 1m	9 lux
Dimensions	146 x 11 mm

Batteries not supplied.

334085

Price Each

Description	Order Code	1+	5+
Penlite	472-8294	79.83	75.91
Accessories			
Spare lamp	472-8300	5.42	4.95
AAA Duracell batteries 4pk	387-6536	29.70	27.55

Industrial ATEX LED Torch



- Uses 2 X D batteries
- 1 X 1 watt super bright Luxeon LED (12 X brighter than a standard LED)
- 45 Lumens. 63 metres beam distance



- Optics engineered to provide an intense 'hot spot' for long distance, plus a less intense 'halo' for area lighting
- Completely Water Proof and Dustproof (IEC standard IP67). IP6X (dust and solid bodies) and IPX7 (waterproof)
- Robust: survives 2.5m drop
- ATEX approval for Intrinsically Safe
- MSHA certified (US Mine Safety and Health Administration)
- UL approved as Intrinsically Safe for Class 1 Div 1 (highest rating possible)
- Ex I M2 / II 1 G, EEx ia I/IIC T4, DEMKO 07, ATEX 0618226

553281

Price Each

Mfrs. List No.	Order Code	1+	5+
628909	177-5675	56.71	53.64

Industrial ATEX LED Torch



- Uses 2 x AA batteries
- 3 x Nichia LEDs
- 18 Lumens. 19 metres beam distance
- Designed to produce a "flood" type beam, ideal for close up inspection work



- Completely Water Proof and Dustproof (IEC standard IP67) IP6X (dust and solid bodies) and IPX7 (waterproof)
- Robust: survives 2.5m drop
- ATEX approval for Intrinsically Safe
- MSHA certified (US Mine Safety and Health Administration)
- UL approved as Intrinsically Safe for Class 1 Div 1 (highest rating possible)
- Ex I M2 / II 1 G, EEx ia I/IIC T4, DEMKO 07, ATEX 0618226

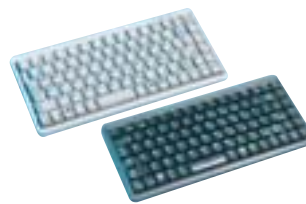
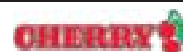
553280

Price Each

Mfrs. List No.	Order Code	1+	5+
628908	177-5673	30.81	29.18

Keyboards

G84-4100 Compact Keyboard



- 86 keys compact keyboard
- 1.75m cable length
- USB and PS/2 interface
- Dimensions (HxWxD): 27x282x132mm

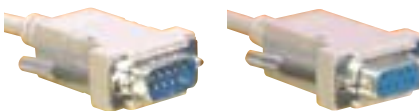
448417

Price Each

Colour	Order Code	1+	5+
Grey	127-9042	248.65	242.78
Black	142-2816	243.77	238.02

Monitors and Accessories

Monitor Extension



- 9 pins wired
- Moulded
- 2 metres

DB9 plug to DB9 socket

OC586/OZ

Price Each

Mfrs. List No.	Order Code	1+	5+	10+
CC9	340-6271	6.47	5.83	5.21

Monitor Cable



- 14 pins wired
- Moulded
- 3 metres

High density 15 pin plug to high density 15 pin plug

OC585/OZ

Price Each

Mfrs. List No.	Order Code	1+	5+	10+
CC17	340-6167	8.22	8.10	8.00

Network Products - Cat 5/E/6 Leads

Cat5E Patch Cords



- 4 twisted pairs UL verified, CSA approved, 568A colour coding
- Moulded plug boots
- Austel permit # A95/83H/0311

242377

Price Each

Length	Colour	Mfrs. List No.	Order Code	1+	10+	25+
0.5m	Ash	W2650ASH	417-8051	6.96	5.60	3.67
0.5m	Black	W2650BLK	417-8087	7.10	5.71	3.74
0.5m	Blue	W2650BLU	417-8099	7.10	5.71	3.74
0.5m	Green	W2650GRN	417-8129	7.10	5.71	3.74
0.5m	Orange	W2650ORA	417-8130	6.96	5.60	3.67
0.5m	Pink	W2650PNK	417-8166	6.96	5.60	3.67
0.5m	Red	W2650RED	417-8191	7.10	5.71	3.74
0.5m	Yellow	W2650YEL	417-8208	7.10	5.71	3.74
1m	Ash	W2651ASH	417-8210	7.57	6.08	4.00
1m	Black	W2651BLK	417-8221	7.72	6.20	4.08
1m	Blue	W2651BLU	417-8233	7.72	6.20	4.08
1m	Green	W2651GRN	417-8245	7.57	6.08	4.00
1m	Orange	W2651ORA	417-8269	7.72	6.20	4.08
1m	Pink	W2651PNK	417-8270	7.72	6.20	4.08
1m	Purple	W2651PUR	417-8294	7.72	6.20	4.08
1m	Red	W2651RED	417-8348	7.72	6.20	4.08
1m	Yellow	W2651YEL	417-8361	7.72	6.20	4.08
2m	Ash	W2652ASH	417-8397	9.00	7.23	4.73
2m	Black	W2652BLK	417-8427	9.36	7.52	4.92
2m	Blue	W2652BLU	417-8439	9.00	7.23	4.73
2m	Green	W2652GRN	417-8440	4.07	--	--

Length	Colour	Mfrs.		Order Code	Price Each		
		List No.			1+	10+	25+
2m	Orange	W2652ORA		417-8452	9.00	7.23	4.73
2m	Purple	W2652PUR		417-8476	9.00	7.23	4.73
2m	Red	W2652RED		417-8488	8.82	7.09	4.64
2m	Yellow	W2652YEL		417-8490	9.00	7.23	4.73
3m	Ash	W2653ASH		417-8506	10.10	8.07	5.29
3m	Black	W2653BLK		417-8518	10.30	8.23	5.40
3m	Blue	W2653BLU		417-8520	10.30	8.23	5.40
3m	Green	W2653GRN		417-8531	3.30	--	--
3m	Orange	W2653ORA		417-8543	10.30	8.23	5.40
3m	Purple	W2653PUR		417-8567	10.30	8.23	5.40
3m	Red	W2653RED		417-8579	10.10	8.07	5.29
3m	Yellow	W2653YEL		417-8580	10.30	8.23	5.40
5m	Blue	W2655BLU		417-8610	12.75	10.30	6.74
5m	Yellow	W2655YEL		417-8671	12.75	10.30	6.74
10m	Blue	W2660BLU		417-8683	19.07	15.30	10.06
10m	Yellow	W2660YEL		417-8695	19.07	15.30	10.06
15m	Blue	W2665BLU		417-8701	25.70	20.60	13.57

Cat5E Crossover Cords



- Wiring is 568A to 568B
- Used to daisy-chain hubs or direct connection of 2 computer network interface cards
- Red coloured cable with Blue boots to minimize confusion with straight-through cords

242389

Length	Mfrs.		Order Code	Price Each		
	List No.			1+	10+	25+
1m	W2681RED		417-8749	14.18	11.32	9.08
2m	W2682RED		417-8750	15.10	12.04	9.66
3m	W2683RED		417-8762	16.73	13.36	10.71
5m	W2685RED		417-8774	18.30	14.60	11.70
10m	W2690RED		417-8786	29.89	23.87	19.18
15m	W2691RED		417-8798	40.09	32.03	25.70
20m	W2692RED		417-8804	44.37	35.50	28.36
30m	W2696RED		417-8816	56.10	44.88	35.90

Network Products - Patch Panels & Cable Management

RJ45 Patch Panels (Unshielded)

Krone IDC



- Fully compliant with EIA/TIA category 5 performance specifications
- Incorporates Krone IDC termination
- Stewart RJ45 Connectors
- 16 and 24 versions
- These loaded patch panels are designed to be stacked in a 19" rack or cabinet
- TSB40A compliant means operation at 100mbit/s is assured

221540

	Order Code	Price Each			
		1+	5+	10+	25+
16 way Patch Panel	574-790	530.48	484.47	466.87	421.91
24 way Patch Panel	728-809	841.72	788.96	733.46	618.26

Serial Comms - Converter/Line Drivers

RS232-20mA Current Loop Convertor



A420

- Optically isolated data lines and high speed transfers e.g. 19,200 bps over 400 meters and a maximum data rate of 64Kbps
- Uses Hewlett Packard opto-couplers for 20mA
- Full Duplex point-to-point communication using only 4 wires (one pair each for receive and transmit data)
- Screw terminal connector for 20mA side
- Current loop transmit and receive lines are

switch selectable for ACTIVE and PASSIVE

- Switchable DCE/DTE selection for RS-232 port
- LED indicators for data activity
- Can be used in multidrop environments
- Housed in a rugged nickel-plated metal case
- CE and C-Tick approved

233114

Connection	Mfrs.		Order Code	Price Each		
	List No.			1+	5+	10+
RS232-20mA CL	A420		189-870	195.84	169.32	151.98

RS232-RS422



A440

- Bi-directional RS-232 to RS-422 interface conversion in asynchronous mode
- Transient Protection on RS-422 lines
- Supports Xon/Xoff software handshaking
- Transmits data reliably at up to 64Kbps
- Switch selectable RS-422 termination resistors for cable distances exceeding 50 meters

- Switchable DCE/DTE selection for RS-232 port
- LED indicators for data activity
- Nickel plated metal case will withstand rugged applications
- CE and C-Tick approved

233123

Connection	Mfrs.		Order Code	Price Each		
	List No.			1+	5+	5+
RS232-RS422	A440		189-881	195.84	169.32	151.98

RS232-RS485



A450

- Multidrop up to 32 devices
- Transient Protection on RS-485 lines
- Full Duplex (4 wire) and Half Duplex operation
- Transmits data reliably at up to 115Kbps
- Non-powered RS-485 operation over distances up to 100 meters
- Switchable DCE/DTE selection for RS-232 port

- Switchable termination resistors for RS-485 port
- LED indicators for data activity
- Monitor mode allows problem diagnosis on the RS422/485 bus
- Nickel plated metal case will withstand rugged applications
- CE and C-Tick approved

233126

Connection	Mfrs.		Order Code	Price Each		
	List No.			1+	5+	10+
RS232-RS485	A450		189-893	195.84	169.32	151.98

RS232-RS485 Convertor



A451

- Multidrop up to 32 drivers and 32 receivers at distances over 1200 meters
- Transient protection on RS-485 lines
- Internal jumper settings allow the use of either 'Standard' or 'crossed' Ethernet cables
- Supports both 4-wire and 2-wire operation
- Transmits data at up to 115Kbps

- Non-powered RS-485 operation over distances up to 100 meters
- Switchable termination resistors for RS-485 side
- RJ-45 connectors on RS-485 port
- LED indicators for data activity
- Monitor mode allows problem diagnosis on the RS-422/485 bus
- CE and C-Tick approved

233128

Connection	Mfrs.		Order Code	Price Each		
	List No.			1+	5+	10+
RS232-RS485	A451		381-4830	208.08	179.52	161.16

USB Products

Ecoline Unmanaged 5-8 Port Switches for Industrial Ethernet

Weidmüller



- Requires absolutely no configuration, just plug-and-play
- Pin assignment of connecting cables is flexible due to auto-crossover functionality (Auto MDI/X)
- Robust aluminum housing for EMC protection
- Mounts on standard TS 35 DIN rail
- IP20 Ingress Protection
- Autocrossing and Autonegotiation functions
- Redundant power supply on IE-SW8

USB Products - continued

Ecoline Unmanaged 5-8 Port Switches for Industrial Ethernet - continued

Specification

- Input voltage: 8-24V AC / 10-36V DC
- Output voltage: 5VA AC / 5 Watt DC on IE-SW5, 6VA AC / 6 Watt DC on IE-SW8

Type	Ports	Operating Temperature	Dimensions HxWxD (mm)	Mfrs List No.	Order Code
IE-SW5	5 x RJ45	0°C ... +60°C	70x25.5x100	8808230000	122-2736
IE-SW5 Flat	5 x RJ45	0°C ... +60°C	34x89x84	8833790000	128-5482
IE-SW8	8 x RJ45	0°C ... +60°C	104x41x105	8829430000	128-5483

439732

Price Each

Type	Mfrs. List No.	Order Code	1+	5+	10+
IE-SW5	8808230000	122-2736	394.01	366.44	345.76
IE-SW5 Flat	8833790000	128-5482	385.95	--	--
IE-SW8	8829430000	128-5483	504.27	--	--

Serial to USB Converter



- Transmission rate up to 600kbps (1Mbps for 2 port)
- USB 1.1 compliant
- No external power supply required
- Cable length is 300mm with a USB A male to a 9 pin D male

- Supports Win 98SE/2000/ME/XP

Contents: Adaptor and software on CD

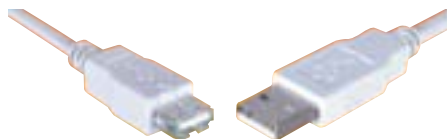
Free up a serial port without any IRQ or Com port conflicts by using this Serial to USB adaptor. Use your legacy serial products such as cameras, printers, modems and PDAs.

383510.271628

Price Each

	Order Code	1+	5+
1 Port	139-0372	21.65	19.46
2 Port	134-5445	69.95	63.09

USB A Extension Cable



USB cable type "A" male to type "A" female extension lead

OC587/OZ

Price Each

Mfrs. List No.	Length	Order Code	1+	5+	10+
CC98	2M	340-6398	5.42	5.33	5.29

USB Type "A" Male to Type "B" Male Cable



USB cable type "A" male to type "B" male

- For the connection of HUB to PC etc

Cable specs:

- 48% braid + alfoil - double-shielded 2 cores at 24AWG + 2C at 28AWG
- Gold plated connections

OC584/OZ

Price Each

Mfrs. List No.	Length	Order Code	1+	5+	10+
CC94	1m	340-6325	4.17	4.11	4.06
CC95	2m	340-6337	6.06	5.48	4.93
CC96	3m	340-6349	6.36	5.74	5.14
CC97	5m	340-6350	8.22	7.44	6.68

Cleaning Products

Cloths and Buds



Safecloths (SCH)

- Extra strong, lint free, cleaning cloths
- Economically sized
- Ideal for cleaning all delicate external surfaces
- 330mmx330mm

Safebuds (SBU)

- Cotton bud tipped swabs
- Ideal for cleaning keyboards and other awkward and inaccessible parts
- Suitable for use with ISOCLENE (Order Code 207-780) or SAFECELENE 2000 (Order Code 726-825)

Foambuds (FBU)

- Thin rigid plastic stick tipped with a foam bud
- Ideal for cleaning difficult to reach areas such as keyboards or tape heads
- Less likely to leave behind contamination
- Suitable for use with ISOCLENE (Order Code 207-780) or SAFECELENE 2000 (Order Code 726-825)

Tisscene (TIS)

- Mesh reinforced paper cloth
- Very absorbent
- High wet strength
- Can be rinsed and re-used
- Suitable for any heavy duty cleaning applications
- Use for cleaning equipment casing, furniture, walls and carpets
- Ideal for use with FOAMCLENE (Order Code 958-335) or anti-static foam cleaner (Order Code 626-260)

Safetiss Paper Wipes (STI)

- High quality, lint free, 230x230mm paper wipes
- Highly absorbent with good wet strength
- Use for general cleaning and wiping operations
- Ideal for use with SAFECELENE 2000 (Order Code 7266-825) or FOAMCLENE (Order Code 958-335)

Pure Cotton Cloths (SWI)

- 100% pure cotton with no additives or brightening agents
- Cut on bias to reduce fraying
- Two sizes 100x100mm and 230x230mm
- Resealable gripper bags to prevent contamination
- Use with Isoclene, Safeclene 2000 or Safeclenes

206833

Mfrs. List No.	Order Code	1+	12+	24+
25 Per Pack				
SCH025	299-297	27.21	23.75	21.22
100 Per Pack				
SBU000	317-561	4.80	--	--
25 Per Pack				
FBU100	224-303	63.97	58.16	53.37
200 Per Pack				
STI200	317-597	15.52	14.20	13.46
100 Wipes				
SWI100	635-029	93.39	84.94	77.82
400 Wipes				
SWI400	635-030	153.18	139.93	135.11

Magnetic Head Cleaning Cards



Cardclene - CCP020

- Pre-saturated cleaning card for regular use on card reading machines
- Double entry of cleaning card, ensuring a Wet/Dry cleaning action
- Disposable card prevents re-contamination of the heads

Warning: Flammable contents, do not use on live equipment or near any source of ignition, use in a well ventilated area.

Cardclene Kit - CCP020K

- Kit containing 20 cards, plastic holder and Headclene magnetic head cleaning fluid
- Pump action spray gives metered dose of cleaning fluid
- Double entry of card ensures a Wet/Dry cleaning action
- Cleaning cards can be re-used several times
- Non flammable and non toxic

Description	Mfrs. List No.	Order Code	Price Each		
			1+	6+	12+
Cardclene	CCP020	302-6887	92.22	83.76	43.27
Cardclene Kit	CCP020K	302-6899	85.05	77.35	48.98

206841

Cleaners



Safepads (SPA)

- Isopropyl alcohol impregnated lint free cloths
- Suitable for cleaning disk packs and other hard surfaces
- Apply using a SAFEWAND (Order Code 317-585)

Warning: Flammable contents, do not use on live equipment or near any source of ignition, use in a well ventilated area

Isoclene (ISO)

- High grade isopropyl alcohol in a pump spray
- Highly efficient and economic
- Residue free
- Use with lint free wipes or foam buds to clean disk packs
- Conforms to standards of major disk pack manufacturers
- Safe to use on most plastics

250ml Pump action spray can warning: Flammable contents, do not use on live equipment or near any source of ignition, use in a well ventilated area

Safeclene 2000 (SCL)

- A fast evaporating cleaning solvent
- For cleaning magnetic read/write heads
- Can be used to clean and maintain electromechanical equipment
- Dries quickly and leaves no residue
- Safe on live equipment
- Contains CO₂
- 200ml Aerosol

Note: May affect some plastics, use in well ventilated area

Safesleeves (SSL)

- Precision cut, lint free cleaning sleeves
- Designed to fit SAFEWAND (Order Code 317-585)
- Used as an applicator for ISOCLENE (Order Code 207-780) or SAFECLENE 2000 (Order Code 726-825) to clean keyboards etc.

Safewands (SWA)

- Cleansing Spatula for cleaning of disk head or disk packs
- Use with SAFESLEEVEs (Order Code 317-573) or SAFEPADS (Order Code 317-548)

206806

Mfrs. List No.	Order Code	Price Each				
		1+	12+	24+	48+	+
SPA010	317-548	1.26	1.12	1.03	0.89	--
ISO250	207-780	27.01	24.59	23.39	20.45	
SCL200	726-825	69.10	62.83	57.52	52.02	

Price Per Pack

10 Per Pack	Order Code	1+	12+	24+	48+	+
		118.31	107.28	98.33	88.96	--
SWA010	317-585	20.68	18.83	17.23	15.54	--

Adaptors

Modular Socket



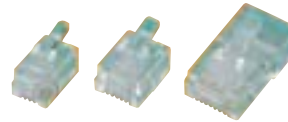
Enables two cords fitted with U.S. modular plugs to be coupled together. Can also be used as a gender changer.

Austel Permit # C89-01A-0302

540/OZ

Type	Order Code	Price Each		
		1+	10+	20+
6P4C Modular Coupler	781-186	8.47	8.09	7.74
8P8C Modular Coupler	781-198	11.83	11.22	10.81

Modular Plugs



A comprehensive range of modular telephone plugs. The 4 position plug, Order Code 781-265, is generally used for the termination of coiled handsets. The 6 position plugs, Order Codes 781-277 and 781-289, are generally used for the termination of line cords. The 8 position plug, Order Code 781-290, is generally used for data communications, telephones and cellular equipment.

FOR SUITABLE TOOLING SEE **ORDER CODE 781-344**

531/OZ

Type	Order Code	Price Each		
		1+	100+	200+
4P4C	781-265	0.592	0.561	0.541
6P4C	781-277	0.592	0.561	0.541
6P6C	781-289	0.663	0.632	0.602
8P8C	781-290	0.724	0.694	0.663

Telecom Connectors

P.O.420/84A Plugs and Sockets, 4 Pole

P.O. Type 420

Type 84A



143-326/143-327

143-364

Cover, L=30.5, Dia=19.8, Probe, L=23

L=31.8, Dia=19.05

Cable entry (see grommet entry)

Panel Cut-out=17.3 Dia.

Plugs	Order Code	Cable grommets	Order Code
Black cover	143-326	Entry, 4.2mm	143-999
Grey/Brown cover	143-327	Entry, 4.8mm	145-285
Socket	143-364		

FOR SUITABLE 4-CORE CABLE SEE 120-2604

220546

	BT type	Code	Price Each				
			1+	25+	100+	500+	+
Plugs	Black 420	143-326	52.09	46.96	38.97	32.38	--
	Grey 420	143-327	45.87	44.79	42.77	38.21	--
Grommets	4.2mm	143-999	1.57	1.51	1.44	1.35	--
	4.8mm	145-285	1.61	1.56	1.51	1.40	--
Socket	84A	143-364	30.50	29.00	28.40	27.80	26.60

Extension Leads

Line Cord



A range of 4 core telephone line cord, suitable for the connection of modular plugs. 26 AWG 7/0.12mm stranded copper to **UL 20251**.

AUSTEL CCL # A92-CC-0008

232479

100m Reels 4 Core	Order Code	Price Per Reel		
		1+	5+	10+
Ivory	781-307	89.02	85.00	81.31
Black	781-320	89.02	85.00	81.31

Powerboards

Portable Outlets - RCD Protected



A four outlet portable device. Comes with overload C.B. and 30mA RCD.



334/OZ

Type	Order Code	Price Each		
		1+	5+	10+
10A	780-923	226.08	216.05	207.14
15A	780-935	575.86	538.41	517.34

Powerboards - continued

Power Surge Protector



Single mains surge protector for use with your valuable appliances and equipment. Simply plug the protector into your 240Vac outlet and then plug your equipment into the protector.

Features:

- Active & Neutral protection
- LED indicator
- Lifetime warranty
- Max 10amp rating.



484400

Mfrs. List No.	Order Code	Price Each 1+
MSD1	143-5562	32.78

Multipack Travel Adaptor



- Multi Pack travel adaptors for use overseas
- Accommodates Australia, NZ, Fiji, PNG and China plugs for use in UK, USA, Europe, HK & Bali

Surge Protect: Metal Oxide Varistor
Typical cap: 430pF @ 1KHz freq
Clamping voltage: ≤775V @ 50A
Energy Absorption: 175 joules
Response Time: ≤20 ns
Approval number: N19893

Specifications:

Power rating: 230-240 AC 50Hz
Current: 10A (max)
Handling: 2400 watt
Protection: Active Neutral
Surge Current: 6000Amps



462342

Mfrs. List No.	Order Code	Price Each 1+ + +
TA520	133-8524	30.76 -- --

Surge Protected and Noise Filtered



4 outlet Power Protector powerboard, 240V ac, with surge protection and noise filter. Neon indicator goes on if the unit has been overstressed and surge protection is no longer available. 10A overload protection. Filter is capacitor/inductor type for RFI noise suppression. Limits voltage spikes to safe values for electronics, computers etc.



266/02/232661

Order Code	Price Each 1+ 5+ 10+
780-467	66.56 63.47 60.73

Spacemaster 8 MKII



432955

- Wider space sockets for AC plug packs
- Illuminated separate switch AC sockets
- 2 RJ11/45 inlets 3 RJ11/45 outputs
- Massive 3 mode total 84,000 amps

- Surge protection via MOV
- Full EMI and RFI protection 56dB
- Size (WxHxD): 145x247x30

Mfrs. List No.	Order Code	Price Each 1+
MSD8530	117-8526▲	117.16

6 Way Surge Power Board



- LED power indicator
- 1.2m Cord
- Re-settable circuit breaker
- On/Off power switch
- EMI-RFI filter
- Approval# N373 Q051802

Load Rating	240V 50Hz 10A	Power Rating	2400W
Peak Surge Current	36000A	Circuit Breaker	10A
Response Time	<5ns		

333987

Mfrs. List No.	Order Code	Price Each 1+ 5+ +
MSD32S	126-9415	36.99 29.96 --

Standard Range



Standard power points with plate size of 70 x 114mm with 84mm mounting centres.

349/02/232592

Mfrs. List No.	Order Code	Price Each 1+ 5+ 10+
Single	787	782-014 12.03 11.50 10.99
Double	777	782-026 22.99 21.88 20.91

Leads

DB9 Serial Extension Cable



- Extend the length of your serial mouse, CGA/EGA video monitor or other DB9 device
- Flextec PVC rubberized cable jacket
- Gold plated copper contacts
- Oversized thumbscrews
- Belkin lifetime warranty

441936

Description	Order Code	Price Each 1+ 3+
1.8m	124-2281	18.20 16.55
3m	124-2282	22.24 20.60
5m	124-2284	28.28 26.64

Electric Locking

Electromagnets Energise to Hold



- Powerful range of electromagnets with holding forces 140N to 1400N as standard
- Directly interchangeable with most European designs
- Ease of installation
- Optimum performance when used with Stephenson Gobin keeper plates
- Body: bright zinc-plated / clear passivated
- Applications include 'pick-and-place' processes, remote access systems & machine guards

- UK- manufactured

mm	N	Power Cons W	a	b	g	h	k	n	r	Weight g
25	140	4	25	20.5	4	M3	6.5	M5	15	70
30	230	4	30	24	5	M3	7.0	M5	18	200
40	500	5	40	27.5	5	M4	9.0	M6	26	220
50	750	6	50	30.5	5	M4	8.5	M6	34	380
65	1400	9	65	35.5	6	M5	8.5	M8	40	750

211887

Order Code	Price Each					
	1+	2+	5+	10+	+	+
25mm						
12V dc 720-0821	135.70	124.50	121.07	115.60	--	--
24V dc 720-0833	135.70	124.50	121.07	115.60	--	--
30mm						
12V dc 720-0857	155.75	142.08	139.34	132.49	--	--
24V dc 720-0869	155.75	142.08	139.34	132.49	--	--
40mm						
12V dc 720-0882	166.75	153.07	148.95	142.02	--	--
24V dc 720-0894	189.58	174.06	169.37	161.48	--	--
50mm						
12V dc 720-0912	222.73	204.96	198.11	190.22	--	--
24V dc 720-0924	222.73	204.96	198.11	190.22	--	--
240V ac 720-0936	300.09	275.21	266.91	254.90	--	--
65mm						
12V dc 720-0948	237.14	217.74	210.80	201.24	--	--
24V dc 720-0950	233.66	214.55	207.71	198.30	--	--

CCTV Accessories

Video Isolation Transformer 'Humbug'



- Eliminates humbars, picture tearing, crosstalk and rolling
- Improves existing and new installation
- Produces distortion-free images

Connectors BNC
Insertion loss 0.5dB
Weight 150g

H=48, W=50, L=70

212994

Order Code	Price Each		
	1+	5+	10+
522-6338	224.91	217.34	199.65

Padlocks



Safety Plus Padlocks



- Compact and ultra-lightweight design
- Corrosion and chemical resistant for use in harsh environments
- Spark-resistant, non conductive body enhances safety in electrical applications
- Electrical Isolation 10,000V
- 6 pin reserved use cylinder delivers optimum security and tamper-proofing
- Rugged reinforced nylon with hardened steel shackle
- Supplied with 2 keys and danger label

418501

Mfrs.			Price Each			
Color	Size	List No.	Order Code	1+	5+	10+
Blue	38mm	850816	903-9929	31.53	30.36	29.27
Black	38mm	850817	903-9937	31.53	30.36	29.27
Green	38mm	850818	903-9945	31.53	30.36	29.27
Orange	38mm	850819	903-9953	31.53	30.36	29.27
Yellow	38mm	850820	903-9961	30.91	29.76	28.70
Red	38mm	850821	903-9970	31.53	30.36	29.27
White	38mm	853203	117-8530 ▲	31.53	30.36	29.27
Purple	38mm	853204	117-8531 ▲	31.53	30.36	29.27

3 Keyed Alike Safety Padlocks



- 3 keyed alike padlocks in one pack
- All padlocks can be opened with the same key
- Durable plastic lock body - corrosion and chemically resistant
- Chrome plated steel shackle
- Precision 6 pin-tumbler cylinder
- Non-conductive body
- Patented Isolated Keyway System

Mfrs.			Price per Pack	
List No.	Colour	Order Code	1+	
853205	Red	125-6943	103.92	
853206	Yellow	129-3136	103.92	
853207	Blue	129-3137	90.46	
853208	Green	129-3139	99.88	

Beacons - LED

Compact LED Beacon



- Multi-voltage 10-100Vdc and mains 110-230V versions available
- Beacon may be wired to flash or provide continuous light
- Clear lens with coloured LEDs
- High efficiency low power consumption
- Mounting bracket available separately

Beacon Height 95mm x Dia 77mm

Colour	Voltage	IP Rating	Diameter	Flash Rate	Order Code
Multi-voltage					
Amber	12, 24, 50, 100V	IP67	77mm	65/Min	149-4660
Red	12, 24, 50, 100V	IP67	77mm	65/Min	149-4662
Mains Voltage					
Amber	110-230V	IP67	77mm	65/Min	149-4668
Red	110-230V	IP67	77mm	65/Min	149-4669

491024

		Price Each				
Colour	Order Code	1+	10+	20+	100+	+
Multi-voltage						
Amber	149-4660	173.19	163.02	156.90	148.21	--
Red	149-4662	173.19	163.02	156.90	148.21	--
Mains Voltage						
Amber	149-4668	212.05	203.85	196.31	185.56	--
Red	149-4669	212.05	203.85	196.31	185.56	--
Accessories						
Mounting Bracket	353-9490	14.48	13.67	13.00	11.55	--
Mounting Pole	149-4680	37.92	35.82	34.14	32.16	--

Dual Colour Compact LED Beacon



- Multi-voltage 10-100Vdc and mains 110-230V versions available
- Dual functionality-full lens red flashing light and green continuous light
- High efficiency low power consumption
- Mounting bracket available separately

Beacon Height 95mm x Dia 77mm

Colour	Voltage	IP Rating	Diameter	Flash Rate	Order Code
Multi-voltage					
Dual: Red/Green	12, 24, 50, 100V	IP67	77mm	65/Min	149-4663
Mains Voltage					
Dual: Red/Green	110-230V	IP67	77mm	65/Min	149-4670

491028

Colour	Order Code	1+	10+	20+	100+	+
Multi-voltage						
Dual: Red/Green	149-4663	264.36	254.08	245.52	232.37	--
Mains Voltage						
Dual: Red/Green	149-4670	307.95	296.07	285.08	269.57	--
Accessories						
Mounting Bracket	353-9490	14.48	13.67	13.00	11.55	--
Mounting Pole	149-4680	37.92	35.82	34.14	32.16	--

Beacons - LED - continued

Flashalarm, LED Beacon Yodac V4 series



Low current consumption, high intensity LED beacon, suitable for providing visual indication or warning of a potential hazard.



- 8 array LED configuration
- IP65 rated
- Long life LED's
- 360° visibility
- Ultra reliable and easy to install
- 24Vdc operating voltage
- Operating temp -25 to +40 °C

450797

Base	Lens	Mfrs.	Order	Price Each		
Colour	Colour	List No.	Code	1+	5+	10+
Red	Amber	FD40/D00/A/RN/8	126-9826	128.88	126.35	121.81
Red	Red	FD40/D00/R/RN/8	126-9827	128.88	126.35	121.81

Installation Permanent/LED/Flashing 206/207 series



206

207/208

Series
Dimensions (dia x L)
Bulb
Temperature range:
Bulb socket
Dome
Housing
Protection

206
57 x 82 mm
7W
-20...+50°C
B15d
PC, transparent
PA6.6GF
IP65

207
58 x 98 mm
LED
-20°C...+50°C
—
PC, transparent; Ring: PC
PA 6.6 GF
IP65

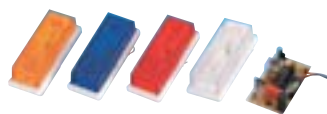
- High protection rating IP 65 for use in outdoor applications
- Optimised illumination
- 360° visibility
- Simple connection by means of 6.3 mm spades
- Bulb change via removal of dome
- Suitable for use in the 22 mm standard control panel/switch gear programme

495254

Description	Voltage	Colour	Mfrs. List No.	Order Code	1+	5+	10+
Beacons							
Permanent	48V	Red	20610000	151-9111	76.72	74.42	70.73
Led Perm. light	24V	Red	20710075	151-9115	182.88	177.38	168.52
Led Perm. light	24V	Green	20720075	151-9118	182.88	177.38	168.52
Led Perm. light	24V	Yellow	20730075	151-9120	182.88	177.38	168.52

Beacons - Xenon

Mini-Strobe Xenon



Drive module: 62x33x22mm
Lamp unit: 79x31x22mm

- Compact and reliable xenon flashing devices for integration into a wide range of applications
- Complete beacon comprises a drive module and xenon tube mounted in a neat water-proof housing
- Xenon tube weatherproofed to IP67
- Applications include security, alarm panels, door entry controls etc.

Voltage	Power Output	Current Consumption (mA)	Flash Rate	Weight (gms)	Order Code
12V	1W	115	60/min	65	146-6237
24V	1W	55	60/min	65	146-6241

227848

Price Each						
Order Code	1+	10+	20+	100+	+	
Drive Modules						
12V	146-6237	34.99	32.99	31.59	29.50	--
24V	146-6241	41.40	38.50	37.70	36.50	--
Xenon lamps						
Amber	146-6242	21.40	19.89	19.01	17.64	--
Red	146-6244	24.40	22.80	22.20	21.50	--
Blue	146-6245	24.40	22.80	22.20	21.50	--
Green	146-6246	24.40	22.80	22.20	21.50	--
Clear	146-6672	22.17	20.65	19.68	18.34	--

Low Profile Xenon Beacon (1W)

12V, 24V, 230V



Drilling pattern for bell box or panel mounting

- High efficiency low current consumption
- Can be mounted vertically or horizontally
- Surface mounting base available separately

Beacon Height 45mm

Voltage	Voltage Range	Current Rating	IP Rating	Diameter	Flash Rate
12V DC	10 - 15V DC	115mA	67	77mm	60/Min
24V DC	20 - 30V DC	55mA	67	77mm	60/Min
230V ac	-	65mA	67	76mm	60/Min

213051

Price Each						
Colour	Order Code	1+	10+	20+	50+	+
12V dc						
Amber	146-6220	49.40	42.70	38.41	35.92	--
Clear	146-6221	50.80	43.98	39.93	37.41	--
Red	146-6222	50.80	43.98	39.93	37.41	--
Blue	146-6223	52.58	45.52	41.33	38.72	--
24V dc						
Amber	146-6224	62.50	54.01	48.91	45.90	--
Red	146-6226	62.50	54.01	48.91	45.90	--
Blue	146-6228	62.50	54.01	48.91	45.90	--
230V ac						
Amber	149-4678	67.38	64.66	62.39	57.90	--
Red	149-4679	67.38	64.66	62.39	57.90	--
Accessories						
Mounting base	223-785	8.66	7.50	6.80	6.45	--

Multi-voltage Xenon Beacons



- Low current consumption range of xenon beacons
- Weatherproof to IP65 and IP67 when installed
- Low profile and standard height versions available in two colours and 1, 2, and 5W outputs
- 24V, multi-voltage (10 - 100V dc) and 230V versions available
- Supplied with 500mm flying leads
- Compact and bright 360° visibility beacon
- Separate mounting bracket available which allows wiring from the side as well as from the base

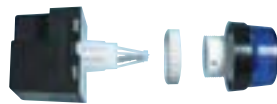
Low profile: H=45mm	Standard: H=95mm					
Colour	Voltage	Power Output	IP Rating	Diameter	Flash Rate	Order Code
Low Profile						
Amber	10-100Vdc	1W	IP67	77mm	60/Min	146-6229
Red	10-100Vdc	1W	IP67	77mm	60/Min	146-6230
Amber	10-100Vdc	2W	IP67	77mm	75/Min	146-6231
Red	10-100Vdc	2W	IP67	77mm	75/Min	146-6232
Amber	24Vdc	5W	IP65	76mm	90/Min	149-4642
Red	24Vdc	5W	IP65	76mm	90/Min	149-4643
Amber	230Vac	5W	IP65	76mm	90/Min	149-4640
Red	230Vac	5W	IP65	76mm	90/Min	149-4641
Standard						
Amber	10-100Vdc	2W	IP67	77mm	75/Min	146-6233
Red	10-100Vdc	2W	IP67	77mm	75/Min	146-6234
Amber	10-100Vdc	5W	IP67	76mm	75/Min	149-4644
Red	10-100Vdc	5W	IP67	76mm	75/Min	149-4645

227849

Price Each						
Colour	Power	Order Code	1+	10+	20+	100+
Low Profile						
Amber	1W	146-6229	60.03	55.96	54.48	48.06
Red	1W	146-6230	55.46	51.70	50.32	44.40
Amber	2W	146-6231	55.46	51.70	50.32	44.40
Red	2W	146-6232	55.46	51.70	50.32	44.40
Amber	5W	149-4642	94.02	87.45	85.63	80.76
Red	5W	149-4643	94.02	87.45	85.63	80.76
Amber	5W	149-4640	97.42	90.63	88.72	83.80
Red	5W	149-4641	103.90	97.85	94.15	88.96
Standard						
Amber	2W	146-6233	86.60	81.63	77.36	68.64
Red	2W	146-6234	86.60	81.63	77.36	68.64

		Price Each					
Colour	Power	Order Code	1+	10+	20+	100+	+
Low Profile							
Amber	5W	149-4644	91.79	85.42	83.60	78.93	--
Red	5W	149-4645	91.79	85.42	83.60	78.93	--
Accessories							
Side Mounting Bracket		353-9490	14.48	13.67	13.00	11.55	--
Pole Mounting Bracket		149-4680	37.92	35.82	34.14	32.16	--

Panel Mount, Flashing



Body L = 35, W = 35, D = 43
Lens L = 23, dia = 36 Total length behind panel = 45

- High Intensity Xenon flash
- Multivoltage (10-100Vdc, 20-72Vac, 110Vac & 230Vac)
- Simple to install
- Fully weatherproof to IP67 (Front)
- Standard 22mm hole pattern
- Five Lens Colours
- Temperature -20°C to +50°C

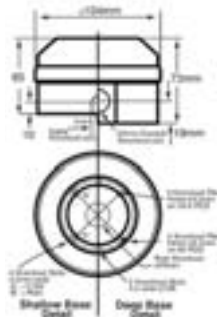
The Microstrobe is a compact and reliable high intensity Xenon indicator for use in panel mount applications. Quick and simple to install with instant visibility and status recognition. The units consist of a drive module and a separate coloured lens, this enables a low stock profile as only a minimum amount of components are required to make up a complete assembly.

Model	Voltage Range	Power Output	Current Consumption (mA)	Flash freq.	Order Code
XP4XMV/1 x	100207210-Vdc -Vac	1	@12V 160	@24V 80	1.25 121-8410

Description	Mfrs. List No.	Order Code	Price Each		
			1+	5+	10+
Multivoltage Drive Unit	XP4XMV/1	121-8410	67.39	56.06	52.95
230vac Drive Unit	XP4X230/1	121-8412	69.75	58.02	54.80

Lens Colour					
Clear	42504101.	410-6325	14.58	12.17	11.47
Amber	42504201.	410-6337	22.52	18.79	17.74
Red	42504301.	400-7529	22.52	18.79	17.74
Blue	42504401.	400-7542	21.65	18.06	17.05

Xenon Beacons - 5 Joule



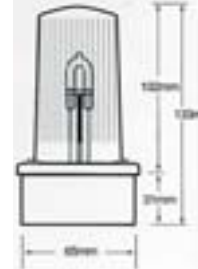
- AC/DC on low voltage
- Wide range of lens colours
- IP65
- Double 20mm side entry
- Supplied complete with polycarbonate reeded lens

Highly efficient xenon beacons producing 5 joules worth of flash energy, ideal for both industrial and fire signalling applications.

Supply Voltage	Current	FPM	Light Source	Mfrs. List No.	Order Code
15 - 28V Ac/Dc	310mA	60	Xenon	X195-02WH-01FA	817-3621
15 - 28V Ac/Dc	310mA	60	Xenon	X195-02WH-02FA	817-3630
15 - 28V Ac/Dc	310mA	60	Xenon	X195-02WH-03FA	817-3648
180 - 250V Ac	110mA	60	Xenon	X195-05WH-01FA	817-3672
180 - 250V Ac	110mA	60	Xenon	X195-05WH-02FA	817-3680
180 - 250V Ac	110mA	60	Xenon	X195-05WH-03FA	817-3699

Lens Colour	Order Code	Price Each			
		1 +	5 +	10 +	25 +
15 - 28V Ac/Dc					
Amber	817-3621	142.80	130.14	120.54	112.99
Red	817-3630	142.80	130.14	120.54	112.99
Blue	817-3648	142.80	130.14	120.54	112.99
180 - 250V Ac					
Amber	817-3672	142.80	130.14	120.54	112.99
Red	817-3680	142.80	130.14	120.54	112.99
Blue	817-3699	142.80	130.14	120.54	112.99

Xenon Beacons - Medium Output



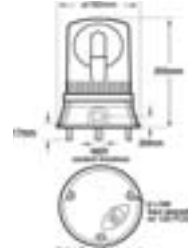
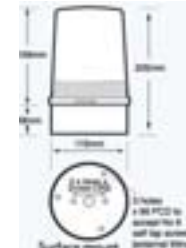
- High visibility flashing beacons for commercial and industrial application
- DC operation, multi voltage
- Surface or conduit mount
- Suitable for use with anti vibration mount and wall bracket
- 2J to 2.7J flash energy dependant on voltage
- IP65
- Operating temperate -25 to +66°C
- Supply tolerance ±10%

Supply Voltage	Current	FPM	Light Source	Base Dimensions	Mfrs. List No.	Order Code
10-100V DC 20-72V AC	130mA	60	Xenon Tube 2.0J	Height 31	Width 65	X125-AC/DC 521-9462
115VAC	30mA	60	Xenon Tube 2.3J	31	65	X125-55FA 309-9209
230VAC	21mA	60	Xenon Tube 2.7J	31	65	X125-56FA 309-9210

Dome Colour	Dimensions		Mfrs. List No.	Order Code
	Height	Diameter		
Amber	102	71	50019FA	309-9544
Red	102	71	50018FA	309-9556
Clear. Colourless	102	71	50022FA	309-9581

Price Each					
Mfrs. List No.	Order Code	1+	5+	10+	25+
Beacon Base Assembly					
X125-AC/DC	521-9462	110.43	107.27	102.98	95.64
X125-55FA	309-9209	120.67	115.99	111.96	105.54
X125-56FA	309-9210	130.39	125.34	120.96	114.05
Dome Accessories					
50019FA	309-9544	22.11	20.48	18.70	16.62
50018FA	309-9556	22.11	20.48	18.70	16.62
50022FA	309-9581	22.11	20.48	18.70	16.62

Xenon Beacons - High Output



Stud mounting dimension=3 M6
equi-spaced on 130pcd

- High visibility flashing xenon beacons for commercial/industrial installations
- X125, 200 and 201 suitable for surface, conduit box (BESA) or anti-vibration plate mounting (Order Code 309-9672)
- X300 and 301 DIN stud mounting
- X200, 201, 300 and 301 optional double flash rate
- Sealed to IP65

Operating Temperature -25°C to + 66°C
Supply voltage ±20%

Supply Voltage	Current	Flash Rate/Min	Light Source	Light Output (Joules)	Base Dimensions H Dia.	Mfrs. List No.	Order Code
12/24Vdc	1.45/700mA	60/90	Xenon Tube Light Source	10/7.5	49	115	X201-18FA 309-9260
115Vac	100mA	60/90	Xenon Tube Light Source	10/7.5	49	115	X200-21FA 309-9246
230Vac	60mA	60/90	Xenon Tube Light Source	10/7.5	49	115	X200-22FA 309-9258

Price Each					
Mfrs. List No.	Order Code	1+	5+	10+	25+
Surface Mounting					
X200-21FA	309-9246	315.88	298.20	281.78	260.14
X200-22FA	309-9258	315.88	298.20	281.78	260.14
X201-18FA	309-9260	351.27	336.10	320.94	299.78
DIN Stud Mounting					
X301-18FA	309-9295	413.02	394.80	376.61	351.38
X300-21FA	309-9271	382.50	362.14	343.23	317.96
X300-22FA	309-9283	382.50	362.14	343.23	317.96

Domes					
Amber	309-9593	36.64	34.25	31.59	--
Red	309-9600	36.64	34.25	31.59	--
Blue	309-9611	33.19	31.03	28.60	--
Green	309-9623	36.64	34.25	31.59	--
Clear	309-9635	30.85	30.49	29.60	--

Beacons - Xenon - continued

High Output Xenon Beacon



Supply Voltage	Current Rating	Flash Rate (Per Minute)	Dimensions (mm)	Mfrs. List No.	Order Code	Price Each
24V	0.7A	90	205	150	X401-18FA	164-9226 ● 337.21
115V	0.1A	90	205	150	X400-21FA	164-9227 ● 298.89
230V	60mA	90	205	150	X400-22FA	164-9228 ● 298.89

Accessories

Colour	Dimensions (mm)	Mfrs. List No.	Order Code	1+	5+	10+
Enclosures						
Amber	156	125	50064FA	309-9593	36.64	34.25
Red	156	125	50065FA	309-9600	36.64	34.25
Blue	156	125	50066FA	309-9611	33.19	31.03
Green	156	125	50067FA	309-9623	36.64	34.25
Clear	156	125	50068FA	309-9635	30.85	30.49
Bracket						
Black		50004	309-9660	83.78	78.86	73.41

Standard Beacon



- Choice of coloured polycarbonate lens
- Emits an intense pulse of light at one second intervals
- Sealed to IP65 and suitable for warning and alarm application
- All 3w beacons are supplied with mounting base
- Easy connection by removable terminal block
- 12/24V versions configured with wiring options on the terminal block



224501

Colour	Order Code	1+	10+	25+	50+
Low Profile 12V/24V DC 2W					
Amber	188-438	77.96	72.40	69.25	66.52
Red	188-451	77.96	72.40	69.25	66.52
Blue	188-463	76.43	70.98	67.89	65.22
Green	188-475	77.96	72.40	69.25	66.52
12V/24V DC 3W					
Amber	188-281	111.68	103.74	99.05	95.38
Clear	188-293	111.68	103.74	99.05	95.38
Red	188-300	111.68	103.74	99.05	95.38
Blue	188-311	111.68	103.74	99.05	95.38
Green	188-323	111.68	103.74	99.05	95.38
110V AC 3W					
Amber	188-335	112.58	104.89	97.04	93.28
Red	188-359	112.58	104.89	97.04	93.28
Blue	188-360	112.58	104.89	97.04	93.28
Green	188-372	112.58	104.89	97.04	93.28
230V AC 3W					
Amber	188-384	109.42	101.72	93.12	90.18
Red	188-402	110.31	104.89	97.04	93.28
Blue	188-414	110.31	104.89	97.04	93.28
Green	188-426	110.31	104.89	97.04	93.28

Flashalarm, Xenon Beacon
V4 Series - IP65

A range of electronic xenon beacons ideally suited to providing a visual alarm, indicating a location or the operation of a hazardous process.

- High flash intensity
- Continuously rated
- Complements the Y04 Series of sounders
- Sealed to IP65

H=90, W=90, D=80.8



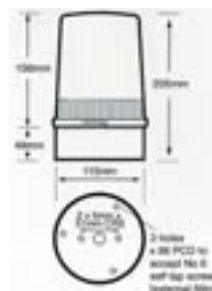
Voltage	Current (mA)	Flash energy (joules)	Flash rate	1Hz
24Vdc	150	2.5	Operating temperature	-25°C to +40°C
115Vac	130	5		
230Vac	35	5		

451042

Base	Lens	Mfrs. List No.	Order Code	1+	10+	25+
24V dc	Red	Red	FL40/D25/R/RN	126-9599 ●	197.02	178.29
24V dc	Red	Amber	FL40/D25/A/RN	126-9600 ●	197.02	178.29
24V dc	White	Amber	FL40/D25/A/WN	126-9830 ●	170.97	167.68
115Vac	Red	Amber	FL40/L50/A/RN	126-9831 ●	163.63	160.53
230Vac	Red	Red	FL40/N50/R/RN	126-9601 ●	177.99	161.08
230Vac	Red	Amber	FL40/N50/A/RN	126-9602 ●	177.99	161.08

Beacons - Incandescent

Static Filament Beacon - High Output



- Constant illumination static filament beacons
- 360° visibility
- Optional anti-vibration mount available (Order Code 309-9672)
- Sealed to IP65

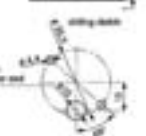
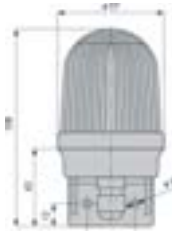
Operating temperature	-25°C to +66°C	Supply voltage tolerance	±20%
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Supply Voltage	Current	Light Source	Base H	Dimensions Dia.	Mfrs. List No.	Order Code
24Vac/dc	2.9A	H1 x 55W Halogen	49	115	SF201-63FA	309-9374
115Vac	520mA	BA15d x 60W	49	115	SF200-08FA	309-9349
230Vac	260mA	BA15d x 60W	49	115	SF200-09FA	309-9350

227853

Mfrs. List No.	Order Code	1+	5+	10+	25+
Beacon Base Assembly					
SF200-08FA	309-9349	61.79	57.87	53.46	47.20
SF200-09FA	309-9350	61.79	57.87	53.46	47.20
SF201-63FA	309-9374	72.66	68.11	62.93	55.52
Domes					
Amber	309-9593	36.64	34.25	31.59	--
Red	309-9600	36.64	34.25	31.59	--
Blue	309-9611	33.19	31.03	28.60	--
Green	309-9623	36.64	34.25	31.59	--
Clear	309-9635	30.85	30.49	29.60	--

Optimum Illumination Beacon



Bulb not supplied.

Surface mount or bracket mount small beacon.

- High protection rating to IP65
- B 15d socket integrated into the base
- Safe CAGE CLAMP technology
- Small shape with high dome
- Optimum illumination
- Connection without the need to disassemble

Housing	PA 6.6 GF Black
Dome	Polycarbonate, transparent
Connection	CAGE CLAMP technology up to 2.5mm ² max

249377

Model	Mfrs.		Price Each	
	List No.	Order Code	1+	4+
Surface mount				
Red, 12 - 240v ac/dc	21010000	433-6987	42.84	38.92
Green, 12 - 240v ac/dc	21020000	433-6999	41.00	37.29
Yellow, 12 - 240v ac/dc	21030000	433-7001	41.00	37.29
Bracket mount				
Red, 12 - 240v ac/dc	21310000	433-7013	52.44	47.77
Green, 12 - 240v ac/dc	21320000	433-7025	51.17	46.50
Yellow, 12 - 240v ac/dc	21330000	433-7037	51.17	46.50
Bulbs				
BA15d, 24V, 7w	95501535	433-7050	67.34	58.89
BA15d, 230V, 7w (4pk)	95501538	433-7062	67.34	58.89

Installation Beacon 815 - 817



Vandal-proof high impact installation permanent or flashing beacon

- IP65
- Shock resistant to 20J
- 37mm diameter mounting hole
- Replacement bulbs available for permanent light versions only

Dimensions 68 x 96.5mm
Dome Polycarbonate, transparent - shock resistant to 20J
Fixing Installation mounting for 37mm diameter
Connection Screwable connection max 2.5mm
Bulb change (Permanent light only) via rear access with bayonet mechanism

335965

		Price Each			
Lens Colour	Voltage	Order Code	1+	5+	10+
Permanent light					
Red	12-240V	121-5242	80.89	75.05	70.39
Green	12-240V	121-5244	87.56	81.23	76.19
Yellow	12-240V	121-5245	80.89	75.05	70.39
Replacement bulbs					
BA15d, 24V, 7watt (4-pack)		433-7050	67.34	58.89	--
BA15d, 230V, 7watt (4-pack)		433-7062	67.34	58.89	--

Beacons - Automotive

Premium Beacons



- Belt drive mechanism
- Popular mounting options
- Low profile lens

Colour	Mounting	Voltage (V)	Current Rating (A)	Dimensions H Dia	Flash Rate (per minute)	Mfrs. List No.	Order Code
Amber	1 Bolt	12 / 24V	4.6 / 3	162mm 131mm	160	LBB122	180-0016
Amber	3 Bolt	12 / 24V	4.6 / 3	152mm 153mm	160	LBB255K	180-0015
Amber	Magnetic	12 / 24V	4.6 / 3	160mm 167mm	160	LBB260K	180-0017

605157

		Price Each			
Mounting	Order Code	1+	5+	10+	25+
1 Bolt	180-0016	77.52	74.87	72.22	69.56
3 Bolt	180-0015	73.36	70.71	68.05	65.40
Magnetic	180-0017	106.40	103.72	101.08	98.42

Euro Beacons



Changing the bulb is easier than ever with new easy to use spring clip

Colour	Mounting	Voltage (V)	Current Rating (A)	Dimensions H Dia	Flash Rate (per minute)	Mfrs. List No.	Order Code
Amber	1 Bolt	12 / 24V	4.6 / 3	163mm 143mm	150	LBB722	180-0019
Amber	3 Bolt	12 / 24V	4.6 / 3	163mm 143mm	150	LBB755K	180-0018
Amber	Magnetic	12 / 24V	4.6 / 3	163mm 143mm	150	LBB760K	180-0020

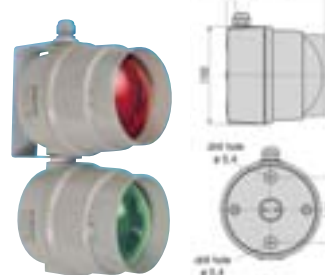
605168

		Price Each			
Mounting	Order Code	1+	5+	10+	25+
1 Bolt	180-0019	52.40	49.75	47.09	44.43
3 Bolt	180-0018	52.40	49.75	47.09	44.43
Magnetic	180-0020	69.77	67.13	64.46	61.82
Lamps					
H1 12V	113-9209	9.16	7.73	7.27	6.73
H1 24V	113-9211	13.13	11.24	10.50	9.72

Beacons - Stacking / Towers / Traffic

Traffic Signal Beacons

Model 890

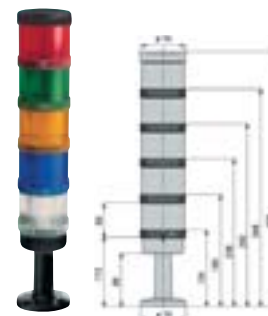


- Signal beacon for traffic light combinations
- High protection rating IP65 for indoor and outdoor use
- Incandescent versions
- ABS, high impact grey housing
- Transparent polycarbonate lens
- Anti-glare ring incorporated
- Practical fixing bracket for two or three beacons

249376

		Price Each			
Colour	Voltage	Mfrs. List No.	Order Code	1+	4+
Filament Versions					
Red	24/230V	89010000	433-6859	110.21	100.19
Green	24/230V	89020000	433-6860	110.21	100.19
Lamps					
E27 25W - 24V		95589055	433-6975	17.82	16.17
E27 25W - 230V		95589068	433-6963	17.82	16.17
Fixing Brackets					
Two Beacon		97589034	433-6926	62.52	57.08

Signal Tower KombiSign 71



- Available in incandescent, Xenon or LED modules
- 24V or 230V versions
- Improved connection with cage clamp technology
- Optically different due to O-ring seal
- Cylindrical instead of conical terminal element
- 360° visibility

335961

		Price Each			
Description/ Lens Colour	Voltage	Mfrs. List No.	Order Code	1+	5+
Permanent light					
Red	12-240V	64110000	121-5233	48.56	45.06
Green	12-240V	64120000	121-5234	47.61	44.18
Yellow	12-240V	64130000	121-5235	48.56	45.06
Clear	12-240V	64140000	121-5236	48.56	45.06
Blue	12-240V	64150000	121-5237	48.56	45.06
Xenon Flashing light					
Red	24V DC	64310055	121-4961	195.26	178.99
Red	230V AC	64310068	121-4963	144.32	132.30
Green	24V DC	64320055	121-4964	191.02	175.11
Yellow	24V DC	64330055	121-4965	195.26	178.99
Clear	24V DC	64340055	121-4967	191.39	175.40

LED Permanent light					
Red	24V AC/DC	64410075	121-4969	118.85	108.97
Green	24V AC/DC	64420075	121-4971	118.85	108.97
Green	230V AC	64420068	121-4972	133.71	122.61
Yellow	24V AC/DC	64430075	121-4973	118.85	108.97
Yellow	230V AC	64430068	121-4975	133.71	122.61

LED Blinking light					
Red	24V AC/DC	64411075	121-4976	125.82	115.36
Red	230V AC	64411068	445-1594	185.73	171.83
Green	24V AC/DC	64421075	445-1600	152.90	140.25
Yellow	24V AC/DC	64431075	121-4977	125.82	115.36
Yellow	230V AC	64431068	121-4978	144.55	132.55

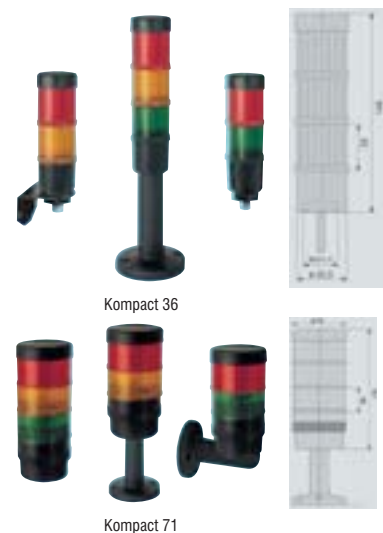
Buzzer element (Continuous or pulse)					
85dB, 25mA	24V AC/DC	64580075	121-4979	97.31	89.16
85dB, 25mA	230V AC	64580068	121-4980	102.61	94.04

Beacons - Stacking / Towers / Traffic - continued

Signal Tower KombiSign 71 - continued

Description/ Lens Colour	Voltage	Mfrs. List No.	Order Code	1+	5+	10+
Siren element (Continuous tone alternating)						
105dB, 100mA	24V AC/DC	64583055	121-4981	112.65	103.28	95.35
Multi-functional Siren element (8 different tones & volume adjustable)						
100dB, 40mA	24V AC/DC	64582075	121-4982	140.08	128.39	118.52
100dB, 40mA	230V AC	64582068	121-4983	151.76	142.87	134.01
Mounting elements						
Tube mounting CAGE CLAMP® (inc. cap)		64081000	121-5238	72.38	67.21	63.03
Tube mounting screw connection (inc. cap)		64083000	121-5239	83.16	77.19	72.40
Bracket or Base CAGE CLAMP® (inc. cap)		64080000	121-5240	76.82	71.32	66.89
Bracket or Base screw connection (inc. cap)		64082000	121-5241	83.16	77.19	72.40
Accessories						
Bracket for base mounting & cable gland		96000001	121-4984	25.47	23.37	21.57
Bracket for surface mounting & cable gland		96000002	121-4985	26.33	24.13	22.30
Bracket for one-sided mounting inc. seal		97584085	121-4957	19.82	18.66	17.46
250mm long aluminium tube		97584025	121-4987	24.64	22.60	20.88
Plastic base for tube mounting		97584090	121-4988	22.73	20.82	19.20
Base with integral tube 110mm long		97584010	121-4956	38.10	35.83	33.65
Cable gland for surface mounting M16 x 1.5		96000004	121-4989	4.12	--	--
Bulbs						
BA15d, 5 watt, 12V		95584034	121-4990	8.01	7.72	7.05
BA15d, 5 watt, 24V		95584035	121-4991	8.01	7.72	7.05
BA15d, 5 watt, 230V		95584038	121-4992	8.01	7.72	7.05

LED Signal Tower Kompact



Available in two sizes - 71mm or 36mm diameter. Two or three tier in three colour combinations available.

- LED permanent light
- Life duration <50,000 hours
- 24V DC operation
- Completely assembled
- Operation with PLC control system

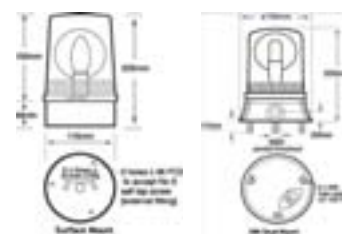
	Kompact 36	Kompact 71
Dimensions	2 tier: 36 x 113mm 3 tier: 36 x 147mm	2 tier: 70 x 138mm 3 tier: 70 x 172mm
Fixing	Surface mount, tube mount or bracket mount	Base mount, tube mount or bracket mount
Connection	By cable or M12 plug	Screwable Connection
Operating voltage	24V	24V
Current consumption	40mA per tier	40mA per tier

				Price Each		
Lens Colour	Connection	Order Code	1+	5+	10+	
36mm diameter						
2 tier						
Red, Green	Cable	121-4942	233.47	214.00	197.56	
3 tier						
Red, Yellow, Green	Cable	121-4944	289.71	265.58	245.15	
Red, Yellow, Green	M12 plug	121-4945	297.14	279.79	262.30	
36mm diameter accessories						
Fixing bracket		121-4946	28.65	26.98	25.30	
Base with integrated tube M25 x 1.5 incl. rubber seals		121-4947	43.83	41.27	38.70	
71mm diameter						
2 tier						
Red, Green	Base/Bracket mounting	121-4948	298.27	280.89	263.35	
Red, Yellow	Base/Bracket mounting	121-4951	228.53	215.16	201.73	

Lens Colour	Connection	Order Code	1+	5+	10+
3 tier					
Red, Yellow, Green	Base/Bracket mounting	121-4954	298.27	280.89	263.35
Red, Yellow, Green	Tube mount	121-4955	298.27	280.89	263.35
71mm diameter accessories					
Base with integrated tube inc. rubber seal		121-4956	38.10	35.83	33.65
Bracket for 1-sided mounting		121-4957	19.82	18.66	17.46

Beacons - Rotating

Rotating Beacons



Stud mounting dimensions=3xM6 equi-spaced on 130 pc

- Very effective signal with 360° beam
- Twin belt drive system
- R200 and 201 suitable for surface or conduit mounting

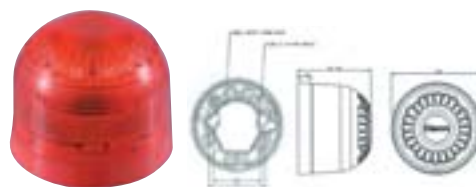
- R300 and 301 DIN stud mounting
- Suitable for use with mounting bracket
- Anti vibration mount
- Sealed to IP65

Operating temperature		-10°C to +66°C		AC supply voltage tolerance		-10%+15%	
DC supply voltage tolerance		±20%					
Supply Voltage	Current	Rotational Speed (rpm)	Light Source	Base Dimensions		Mfrs List No.	Order Code
				H	Dia.		
Surface Mounting							
12Vdc	4.7A	160	H1 x 55W Halogen	49	115	R201-13FA	309-9404
24Vdc	3A	160	H1 x 70W Halogen	49	115	R201-14FA	309-9416
115Vac	550mA	120	BA15d x 60W	49	115	R200-04FA	309-9386
230Vac	290mA	120	BA15d x 60W	49	115	R200-05FA	309-9398
DIN Stud Mounting							
24Vdc	2.9A	160	H1 x 70W Halogen	49	150	R301-14FA	309-9453
230Vac	290mA	120	E14 x 60W	49	150	R300-05FA	309-9430

Mfrs. List No.	Order Code	1+	5+	10+	25+
Surface Mounting					
R201-13FA	309-9404	254.53	236.01	219.04	196.61
R201-14FA	309-9416	243.10	225.41	209.22	187.80
R200-04FA	309-9386	222.38	207.22	190.81	172.20
R200-05FA	309-9398	222.38	207.22	190.81	172.20
DIN Stud Mounting					
R301-14FA	309-9453	292.99	274.04	255.08	231.48
R300-05FA	309-9430	288.83	269.47	250.11	227.80
Domes					
50064FA	309-9593	36.64	34.25	31.59	--
50065FA	309-9600	36.64	34.25	31.59	--
50066FA	309-9611	33.19	31.03	28.60	--
50067FA	309-9623	36.64	34.25	31.59	--
50068FA	309-9635	30.85	30.49	29.60	--

Beacon & Sounder Combination

Sonos - DC LED Beacons and Sounders



A new generation of sounder beacons, complete with a choice of 32 tones, that are designed for use in applications such as industrial, fire, security and the automotive industry.			
● Unique wire-to-base facility reduces installation time ● Plastic casing is the lens, providing greater light spread ● High output with long life ● EN54 3:2001 compliant ● Shallow base version dims: W - 100mm, H - 81.3mm ● Deep base version dims: W - 97.5mm, H - 104.1mm ● Colour: Red base and red lens			
Voltage	17 - 60Vdc	Rating	Continuous
Current	10 - 50mA (tone dependent)	Temperature Range	-25°C to +70°C
Output	107dB@ 1m	IP Rating	IP65 (Deep Base)
Frequency	400 - 2850Hz	Weight	215g (Shallow Base), 250g (Deep Base)

386406

Type	Mfrs. List No.	Order Code	1 +	Price Each	5 +	10 +
With Sounder						
Shallow Base	18-980500	881-0257▲	121.68	119.92	112.47	
Deep Base	18-980501	881-0265▲	123.32	119.92	112.47	

Flashtone 32 Tone Sounders with Xenon Beacons



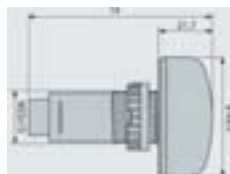
Using the very latest in strobe technology, these strobe/sounder combinations suit the majority of fire and security needs where conventional sound requires the back-up of a visual alarm. Designed with a push-and-twist bayonet fitting for easy installation.

- Low current consumption
- Easy push & twist lockable bayonet mounting
- 32 user selectable sounds
- Simple in and out wiring blocks offering continuous override and dual signalling
- Flame Retardant ABS

	Standard Base	Deep Base	Temperature Range	-40°C to +70°C	-40°C to +70°C
Voltage	9/30Vdc	9/30Vdc	IP Rating	IP 45	IP 66
Current	6mA	6mA	Dims. (H x Dia)	80mm x 90mm	105mm x 90mm
Output	94dB	94dB	Mfrs. List no.	8581700/HB	8581750/HB

Description	Order Code	Price Each		
		1 +	5 +	10 +
Standard Base				
White/Amber	129-3198🟢	95.51	91.53	86.80
Red/Red	129-3201🟢	95.51	91.53	86.80
Deep Base				
White/Amber	129-3200🟢	119.28	112.70	106.41
Red/Red	129-3202🟢	119.28	112.70	106.41

LED/Buzzer Combination 150



LED beacon with integral buzzer that can be activated optionally. Designed for industrial use on equipment using standard front panel 22.5mm mounting holes.

- Protection to IP65
- Sound output 80dB at 1m
- Continuous tone
- LED beacon <50,000 hours life duration
- Supplied with screw terminal connector and sealing gasket

Dimensions	49.5 x 74mm (height x diameter)	<50mA with
Starting current	<0.5A	Life duration
Current consumption	<50mA with 24V	<50,000 hours

Colour	Voltage	Order Code	Price Each		
			1+	5+	10+
Red	24V	121-5003 ●	122.07	119.02	115.99
Red	230V	121-5004 ●	128.88	121.30	113.09

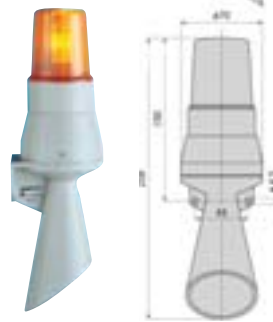
LED/Buzzer Combination



- Buzzer in combination with LED permanent beacon
- High life duration - up to 50,000 hours
- Optical and audible signal can be triggered separately
- Continuous or pulse tone adjustable
- Max. sound output 90db
- Integrated mounting bracket
- Current consumption: 60mA @ 24V, 40mA @ 115/230V
- High protection rating - IP 65
- Operating temperature: -20°C to +50°C

Voltage	Colour	Mfrs. List No.	Order Code	Price Each		
				1+	5+	10+
230V	Red	42211068	101-4746 ●	261.56	252.72	240.07

Signal Horn/Light Combination 580



Horn/Light combination suitable for indoor use.

- ABS grey housing
- Polycarbonate lens
- Sound output: 92dB at 1m
- 7W filament lamp included
- Current consumption: 24V dc (320mA) 230V ac (50mA)

Model	Order Code	Price Each	
		1+	4+
Red 24v dc	433-6793	130.95	121.51
Yellow 230v ac	433-6823	136.30	126.78

Xenon Beacon/Sounders Flashni



- Audible and visual devices that require one single installation point
- High output sounder beacon
- Automatic sounder synchronisation
- Tones: 12V preset to tone 5, 24V preset to tone 3
- Volume control
- Reverse polarity monitoring
- Lockable base

	12V	24V
Voltage	9 - 15V	18 - 30V DC
Current	100mA	68mA
Output	101dB(A)	101dB(A)
Beacon	0.7J	0.7J
Flash Rate	1Hz	1Hz
IP Rating	IP65	IP65
Temperature Range	-10°C to +55°C	-10°C to +55°C
Dimensions (HxDia)	92 x 93mm	121 x 93mm
Weight	0.33kg	0.29kg

Colour (Base/Lens)	Mfrs. List No.	Order Code	1+	10+	25+	50+
24V Shallow Base						
White/Red	FL/RL/W/S	132-0769	175.73	165.77	159.71	146.73
White/Amber	FL/AL/W/S	132-0770	175.73	165.77	159.71	146.73
12V Deep Base						
White/Amber	FL/AL/W/D/12V	132-0772	175.73	165.77	159.71	146.73
White/Red	FL/RL/W/D/12V	132-0773	175.73	165.77	159.71	146.73
White/Blue	FL/BL/W/D/12V	132-0775	175.73	165.77	159.71	146.73

Flashni - 24V DC

2 Tone With Integral Beacon



H=121, Dia.=93,
Fixing centres=50 or 60

Operating voltage	18 to 30V dc	Flash energy	0.7J
Current	68mA (average)	Flash rate	60/min
Sound output @ 1m	101dB(A)	Lens	Red or amber polycarbonate
Operating temperature	-10°C to +55°C	Housing	Red or white ABS

Mfrs. List No. FL/RL/R/D = 132-0821, FL/RL/W/D = 132-0822, FL/AL/W/D = 132-0823

Beacon & Sounder Combination - continued

Flashni - 24V DC - continued

2 Tone With Integral Beacon - continued

227858.500089

Base Colour	Lens Colour	Order Code	1+	10+	25+	50+	+
Red	Red	132-0821	214.80	204.69	200.91	194.48	--
White	Red	132-0822	214.80	204.69	200.91	194.48	--
White	Amber	132-0823	217.34	207.22	204.69	196.97	--

High Output Sounder/Beacons Midi



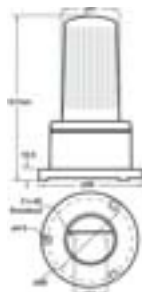
- A versatile and rugged audio-visual alarm designed for industrial environments
- Robust and well protected alarm
- Suitable for use with a wide range of fire and process systems
- AC and DC versions available
- Fully integrated high efficiency beacon
- 32 tones
- 2 stage alarm
- Simple first and second stage installation
- Colour: Red with red lens

Voltage	9 - 60Vdc / 115Vac / 230Vac
Current	230mA/40mA/35mA (9 - 60Vdc/115Vac/230Vac)
Flash Power	2.5J
Flash Rate	1Hz
IP Rating	IP66
Temperature Range	-20°C to +70°C
Dimensions (WxHxD)	165 x 173 x 132mm
Weight	0.8kg

419656

Voltage	Mfrs. List No.	Order Code	1+	10+	25+	+
9 - 60Vdc	AS/M/SB/9-60V/R/RL	132-0807	223.19	210.07	202.19	--
115Vac	AS/M/SB/115/R/RL	132-0809	271.66	256.51	246.39	--
230Vac	AS/M/SB/230/R/RL	132-0808	270.66	255.56	245.49	--

Flashing Filament Beacon & Buzzer



- Two signals in one
- 85dB buzzer
- Din or conduit box mounted
- Suitable for use with Moflash anti-vibration mount (Order Code - 309-9672)
- Ideal for local status indication
- IP65
- Operating temperature -25°C to +66°C
- Supply tolerance ±20%

Supply Voltage	Current	FPM	Light Source	Base Height	Base Diameter	Mfrs. List No.	Order Code
24V	0.9A	60	Ba15d x 21W	45	98	FFA125-81	378-7278
230V	0.08A	60	Ba15d x 15W	45	98	FFA125-83	378-7291

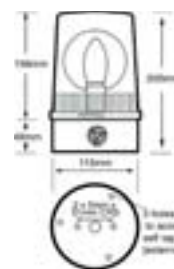
Dome Colour	Height	Diameter	Mfrs. List No.	Order Code
Amber	102	71	50019FA	309-9544
Red	102	71	50018FA	309-9556
Clear. Colourless	102	71	50022FA	309-9581

All Domes are UV Stable Polycarbonate

242896

Mfrs. List No.	Order Code	1+	5+	10+	25+
Beacon Base Assembly					
FFA125-81	378-7278	146.56	132.67	122.43	111.87
FFA125-83	378-7291	146.56	132.67	122.43	111.87
Dome Accessories					
50019FA	309-9544	22.11	20.48	18.70	16.62
50018FA	309-9556	22.11	20.48	18.70	16.62
50022FA	309-9581	22.11	20.48	18.70	16.62

Rotating Beacon + Buzzer



- Two signals in one unit
- Conduit box mount
- Suitable for use with Moflash bracket, anti-vibration mount and guard
- Sound output 95dB @ 1M
- Ideal for general warning
- IP65
- Operating temperature -10°C to +66°C
- Supply tolerance ±10%

Supply Voltage	Current	RPM	Light Source	Sound Output	Base Height	Base Diameter	Mfrs. List No.	Order Code
24V	3.0A	160	H1 x 70W	95dB @ 1M	49	115	RA201-21	378-7310
115V	0.55A	120	Ba15d x 60W	95dB @ 1M	49	115	RA200-24	378-7321
230V	0.29A	120	Ba15d x 60W	95dB @ 1M	49	115	RA200-25	378-7333

Dome Colour	Height	Diameter	Mfrs. List No.	Order Code
Amber	156	125	50064FA	309-9593
Red	156	125	50065FA	309-9600
Blue	156	125	50066FA	309-9611
Green	156	125	50067FA	309-9623
Clear	156	125	50068FA	309-9635

All Domes are UV Stable Polycarbonate

242898

Mfrs. List No.	Order Code	1+	5+	10+	+
Beacon Base Assembly					
RA201-21FA	378-7310	150.36	132.67	121.30	--
RA200-24FA	378-7321	150.36	132.67	121.30	--
RA200-25FA	378-7333	154.15	135.20	124.33	--
Dome Accessories					
50064FA	309-9593	36.64	34.25	31.59	--
50065FA	309-9600	36.64	34.25	31.59	--
50066FA	309-9611	33.19	31.03	28.60	--
50067FA	309-9623	36.64	34.25	31.59	--
50068FA	309-9635	30.85	30.49	29.60	--

Sounder/Strobe Combination Unit

YL2 series



Unique and attractive compact Sounder/Strobe unit for indoor use. Suitable as a Bedhead device that can be wired separately providing either sound, light or combined alarm indication.

- Flame retardant ABS enclosure with polycarbonate lens
- Volume Control
- 100 dB sound output
- Parabolic reflector produces high intensity light output (3J)
- Current consumption Strobe 60mA, Sounder 20mA
- EN54-3 approved
- 24Vdc operating voltage
- Operating temp -25 to +40 °C

450808

Base Colour	Lens Colour	Mfrs. List No.	Order Code	1+	5+	10+
Red	Red	YL20/D10/R/RN	126-9833	170.57	166.78	160.47
White	Red	YL20/D10/R/WN	126-9834	170.57	166.78	160.47
White	Amber	YL20/D10/A/WN	126-9837	170.57	166.78	160.47

Yodalight, YL4 Series-IP54

Combination Sounder Beacon



A versatile, compact electronic sounder with integral high intensity flashing beacon designed for fire, security and hazard warning.

- High sound output 96-106 dB
- 32 different sound options
- Continuously rating
- Sealed to **IP54**
- Complies with **BS5839**
- **EN54-3** approved

Operating temperature -25°C to +40°C

H=179, W=88, D=80.8

451051

	Base	Lens	Mfrs.		Price Each		
Voltage	Colour	Colour	List No.	Order Code	1+	10+	25+
12V	Red	Red	YL40/B25/R/RN	126-9840	179.43	175.64	169.32
12V	White	Red	YL40/B25/R/WN	126-9603	270.41	236.28	211.02
12V	White	Amber	YL40/B25/A/WN	126-9605	270.41	236.28	211.02
24V	Red	Red	YL40/D25/R/RN	126-9606	270.41	236.28	211.02
24V	Red	Amber	YL40/D25/A/RN	126-9607	270.41	236.28	211.02
24V	White	Amber	YL40/D25/A/WN	126-9841	179.43	175.64	169.32
115V	White	Amber	YL40/L50/A/WN	126-9842	232.50	227.44	218.60
115V	Red	Red	YL40/L50/R/RN	126-9843	227.94	222.98	214.31
230V	Red	Red	YL40/N50/R/RN	126-9608	350.01	305.78	271.66
230V	Red	Amber	YL40/N50/A/RN	126-9609	350.01	305.78	271.66

Yodalight, YL5 Series - IP54 Multitone with Integral Beacon



The YL5 consists of a Y05 alarm and V4 Xenon flash alarm giving both an audible and visual alarm in one compact unit.

- Flame retardant case and lens
- High sound output
- 32 different sound options
- 2 stage alarm
- DC model has a volume control with a 15dB range
- Sealed to **IP54**
- **EN54-3** approved
- Complies with **BS5839**

H=191.5, W=134, D=128
Fixing centres=153x8 Dia.

Selectable sound options : Alternate two tone, continuous, interrupted tone, slow whoop, swept frequency, siren, fast whoop, alternate fast two tone

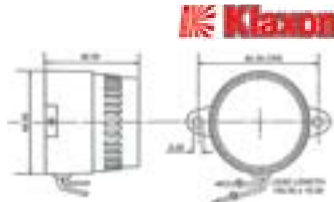
Supply voltage	24V dc or 230V ac	Output flash energy	5J
Output sound level @ 1 metre	110 dB(A)	Flash rate 1Hz	1Hz
Current	24V dc, 290mA 230V ac, 90mA	Operating temperature	-25°C to +55°C

451027

Beacon Voltage	Beacon Colour	Mfrs. List No.	Order Code	1+	10+	25+
24V dc	Red	YL50/D50/R/RF	126-9610	558.77	489.49	435.28
24V dc	Amber	YL50/D50/A/RF	126-9845	468.77	410.65	365.17
230V ac	Red	YL50/N50/R/RF	126-9611	589.24	516.19	459.02
230V ac	Amber	YL50/N50/A/RF	126-9612	589.24	516.19	459.02

Piezo's & Buzzers

P40 - High Output Piezo Buzzer



A high output piezo buzzer designed for warning in security, fire, automotive and industrial applications. With a choice of two signals (continuous or pulsed) they are ideal for use as panel warning

devices, where an additional signal may be required.

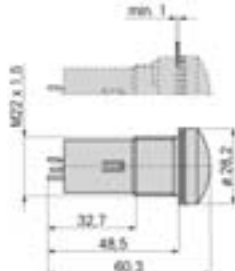
- High sound output
- Wide voltage range
- Compact design for installation in all locations
- Colour: White

Voltage	12/24Vdc	Temperature Range	-20°C to +60°C
Current	40mA	IP Rating	IP 30
Output	95dB@ 1m	Weight	57g
Frequency	3200Hz	Mfrs. List no.	17-970040
Rating	Continuous		

386400

Description	Order Code	1+	5+	10+
Piezo Buzzer	881-0125	57.76	53.97	51.55

Installation Buzzer 107



- Low current consumption buzzers with high protection rating to IP65
- Sound output: 80dB at 10cm
- Standard 22.5mm control panel cut-out
- Supplied with screw terminal connector and sealing gasket

Tone frequency	continuous or pulsating at approx 1 Hz	Housing material	PC/ABS Black
Current consumption	≤ 8mA		

249363

Model	Mfrs. List No.	Order Code	1+	4+
Continuous 24v ac/dc	10700075	433-6665	63.43	57.99
Continuous 230v ac	10700068	433-6677	66.83	61.16
Pulsating 24v ac/dc	10701075	433-6689	63.43	57.99
Pulsating 230v ac	10701068	433-6690	66.83	61.16

Mini Two Tone Sounder - 5V to 30V



A miniature panel mounting two tone continuous sounder ideally suited for mounting in portable equipment and instrument panels, a choice of two continuous signals, high or low being offered from the one unit. Its solid state construction ensures high reliability.

Dia.=27 (body), D=20 (behind panel)
Mounting hole=12.7 Dia., Panel thickness=3.2 max.

Voltage Range	5 to 30V dc, 20V ac modulated at supply frequency
Current	Typically @ 5V, @ 30V dc
Sound Output	Typically 75dB (A) @ 12V, 68dB (A) @ 5V, @ 1 Metre
Insulation	7500V mounting panel to circuit
Frequency	Low - 800Hz ±20% (modulated high note) High - 4kHz ±10% -20%
Connections	3 Flying leads, 14/0.12mm, 250mm long
Red Lead	Denotes +ve connection, or ac
Black Lead	Denotes -ve connection, or ac
White Lead	Connect to +ve for high frequency (Red) or Connect to -ve for low frequency (black)

Lead Length

213045

Order Code	1+	10+	25+	50+	+	+
130-7898	55.32	52.84	50.92	47.82	--	--

Process Sounders Askari Panel



- Compact sounders, purposely designed to fit through the fascias of control panels or equipment housings
- Single nut fixing ensures simple installation and maximum audibility
- High IP rating allows installation in most process and industrial environments
- Low current consumption
- 32 tones

- Second tone for two stage alarms
- Automatic synchronisation
- Through panel fixing

Voltage	9 - 28V DC	Temperature Range	-25°C to +70°C
Current	18mA @ 24Vdc	Dimensions (HxDia)	43 x 50mm
Output	92dB(A) @ 24Vdc	Weight	0.95kg
IP Rating	IP65		

419567

Colour	Mfrs. List No.	Order Code	1+	10+	25+	50+
Red	AP/R/SWITCHED/VC	146-6515	54.45	51.30	49.46	45.42
White	AP/W/SWITCHED/VC	146-6516	51.88	48.89	47.14	43.29

Process Sounder Askari Flange



- A compact sounder that can be mounted either within or external to equipment housings
- High IP rating allows it to be used in most environments
- Surface mounting
- Low current consumption
- 32 tones
- Second tone for two stage alarms
- Automatic synchronisation

Voltage	9 - 28V DC
Current	18mA @ 24Vdc
Output	92dB(A) @ 24Vdc
IP Rating	IP65
Temperature Range	-25°C to +70°C
Dimensions (HxDia)	43 x 53mm
Weight	88g

419569

Colour	Mfrs. List No.	Order Code	1+	10+	25+	50+
White	AF/W/5	132-0767	39.17	36.90	35.64	32.70

Piezo's & Buzzers - continued

Piezo Sirens 6V to 12V



676-550
H=40, W=43, D=56

676-561
H=55, W=62, D=85

676-573
L=97, Dia.=92

A range of powerful piezo electric sirens producing rapid rising and falling tones, ideal for intruder and automotive alarm systems

- Very high sound level output
- Integral adjustable mounting bracket
- Colour coded lead connections

Voltage	Current	Sound Level @ 1M	Frequency	Order Code
6-12Vdc	160mA	105dB(A)	2.3-2.8kHz	676-550
6-12Vdc	350mA	115dB(A)	1.8-2.3kHz	676-561
8-15Vdc	350mA	120dB(A)	0.6-1.2kHz	676-573

Connections: red +ve black -ve Operating Temperature -20°C to +70°C

212856

Sounder Electronic

Banshee 32 Tone Sounders



Traditional multi-tone sounders with modern and easy-to-install features, complemented by an aesthetic design. Meeting the expectations of the architect, installer and user, these efficient sounders are designed for all applications. Designed with a push-and-twist bayonet fitting for easy installation.

- EN53 part 3 approved LPC and VdS
- Low current consumption
- Easy push & twist lockable bayonet mounting
- 32 user selectable sounds
- Simple in and out wiring blocks offering continuous override and dual signalling
- Flame Retardant ABS

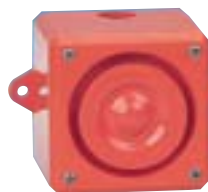
	Standard Base	Deep Base	Temperature Range	-40°C to +70°C	-40°C to +70°C
Voltage	9/30Vdc	9/30Vdc	IP Rating	IP 45	IP 66
Current	6mA	6mA	Dims. (H x Dia)	74mm x 90mm	99mm x 90mm
Output	101dB	101dB	Mfrs. List no.	8900400/HB	8900800/HB

386551

Description	Order Code	1+	5+	10+
Standard Base				
White	879-7110▲	63.43	58.50	57.99
Grey	879-7137▲	63.43	58.50	57.99
Red	879-7153▲	62.19	57.35	56.85
Deep Base				
Grey	879-7145▲	90.60	87.43	81.52
Red	879-7161▲	90.60	87.43	81.52

Yodalarm, Y03 Series - IP54

High Output 100dB(A)



H=89, W=89, D=85,
Fixing centres=102x6 Dia.

High output alarm sounder housed in a compact flame retardant ABS case, ideally suited for fire, safety and security hazard warning

- Volume control
- Low current consumption
- 32 different sound options (selectable via DIP switch)
- Powerful 100dB sound output
- Sealed to IP54
- 2 stage alarm
- Complies with BS5839, Part 1 : 2002

Supply Voltage
Output Sound Level @ 1 metre
Current (min)

12/35Vdc or 230Vac
100dB(A)
24V dc, 26mA
230V ac, 13mA

Volume Control (18dB approx) d/c conversion only
Operating Temperature

-25°C to +°C

212852

Voltage	Mfrs. List No.	Order Code	1+	5+	10+	20+	+
24V dc	YA30/D/RF	126-9584●	149.10	135.20	130.14	123.87	--
230Vac	YA30/N/RF	126-9585●	276.64	264.08	248.36	221.92	--

Yodac, Y04 Series - IP54

12/24V dc



H=88, W=88, D=80.8

A versatile, compact electronic sounder designed for fire, security and hazard warning

- High sound output
- Low current consumption, ideal for multi sounder installations
- 32 different sound signals (Selectable via DIP switch)
- 2 stage alarm
- Manufactured from high impact resistant ABS
- Complies with BS5839, Part 1 : 2002

Volume Control (18dB approx)
Supply Voltage 24Vdc (12-35VDC)
Minimum Current Consumption 20mA

Operating Temperature
Output Sound Level @ 1 metre 106dB
Operating Temperature

22249

Voltage	Colour	Mfrs. List No.	Order Code	1+	10+	25+
12/24V dc	White	YA40/D/WN	126-9587●	145.30	131.42	125.60
12/24V dc	Red	YA40/D/RN	126-9588●	145.30	131.42	125.60

Yodalarm, Y05/Y08 & Y08 Super Series - IP54



Y05 Series:
H=134, W=134, D=128,
Fixing centres=153 x 8 Dia.



Y08 Series Y08 Super:
H=216, W=216, D153
Fixing centres 250 x 10 Dia.

High output alarm sounders, ideally suited for fire, safety security and industrial process sectors

- Low current consumption
- 32 sound signals via dip switch

- Manufactured from flame retardant ABS
- Sealed to IP54
- Complies with BS5839 & EN54-3

Output sound level @ 1 metre
Current

Y05 Series	Y08 Series	Y08 Super
106dB(A)	106dB(A)	120 dB (A)
24V dc 30mA	24V dc, 13mA (A)	24V dc, 300mA (A)
230V ac, 30mA	230V ac, 13mA (A)	230V ac, 300mA (A)

Volume Control (18dB approx)
Operating Temperature

-25°C to +55°C

-25°C to +55°C -25°C to +55°C

451020

Voltage	Mfrs. List No.	Order Code	Price Each		
			1+	5+	10+
230V ac	YA50/N/RF	126-9592 ●	277.99	237.56	224.91
24V dc	YA80/D/RF	126-9593 ●	598.93	515.55	482.67
115V ac	YA80/L/RF	126-9858 ●	756.24	741.71	714.31
230V ac	YA80/N/RF	126-9594 ●	603.98	515.55	490.26
24V dc super	YA80/D/RF/SU	126-9595 ●	744.24	679.79	629.27

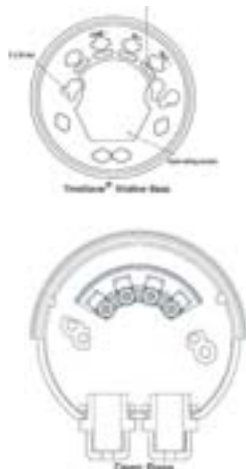
Sonos - Alarm Sounders



Shallow Base



Deep Base



Unique, multi-purpose alarm sounders optimised for fire applications and fitted with the TimeSaver Base®. Suitable for use in all locations, both indoors and outdoors.

- 32 distinct tones
 - Quick and safe installation
 - Tone and volume setting can be preset or adjusted 'off-base'
 - EN54 3:2001 and BS5839 pt 1 compliant
 - Shallow base version dims: W - 100mm, H - 81.3mm
 - Deep base version dims: W - 97.5mm, H - 104.1mm
 - Colour: Red or White
- Voltage 8 - 35Vdc Rating Continuous
 Current 6 - 35mA (tone dependent) Temperature Range -25°C to +70°C
 Output 110dB@ 1m IP Rating IP65 (Deep Base)
 Frequency 400 - 2850Hz Weight 215g (Shallow Base), 250g (Deep Base)

386405

			Price Each		
Colour	Mfrs. List No.	Order Code	1 +	5 +	10 +
Shallow Base					
Red	18-980450	881-0214▲	70.14	63.43	60.27
Deep Base					
Red	18-980451	881-0230▲	72.15	63.43	60.27
White	18-980476	881-0249▲	72.15	63.43	60.27

Roshni LP - 32 Tone 12/24V DC



Shallow Base H=85, Dia.=93
Fixing centres=50
Deep Base=105, Dia=93
Fixing centres=50 or 60

Operating Voltage	9 to 28Vdc	Operating Temperature	-25°C to +80°C
Operating Current(tone 3)	8mA (12V) 16mA (24V) 30mA (2ms)	Sound Output Level @ 1m (tone 3)	96dB(A) (12V) 102dB(A) (24V) White ABS
Starting Current		Housing	
Mfrs. List No:	ROLP/R/S = 132-0817 ROLP/W/S = 132-0818	ROLP/R/D = 132-0819 ROLP/W/D = 132-0820	

227835

		Price Each				
	Order Code	1+	10+	25+	50+	+
Shallow Base						
Red	132-0817 	67.03	64.33	62.72	57.77	--
White	132-0818 	67.03	64.33	62.72	57.77	--
Deep Base						
Red	132-0819 	67.03	64.33	62.72	57.77	--
White	132-0820 	63.17	60.62	59.10	55.53	--

High Output Sounders

Midi



- A versatile, compact unit designed for industrial areas
- Robust and well protected alarm
- Suitable for use with a wide range of fire and process systems
- 32 tones
- 2 stage alarm
- Simple first and second stage installation
- Colour: Red

Voltage	AC - 24Vac = 18 - 30Vac AC - 230Vac = 115 / 230Vac DC = 9 - 60Vdc
Current	AC - 24Vac = 43mA AC - 230Vac = 22mA DC = 120mA

Output	110dB(A)
IP Rating	IP66
Temperature Range	-20°C to +70°C
Dimensions (WxHxD)	165 x 136 x 132mm
Weight	0.8kg

419652

Voltage	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
9-60Vdc	AS/M/S/9-60V/R	132-0803 ●	208.18	196.43	189.28	173.80
24Vac	AS/M/S/24VAC/R	132-0806 ●	212.86	200.79	193.50	177.63
115-230Vac	AS/M/S/115/230/R	132-0805 ●	274.42	258.94	249.47	229.08

Standard Sounder

RoLP - Roshni Low Profile



- High sound output
- Low current consumption
- 32 tones (user selectable)
- Automatic synchronisation
- Volume control
- Second tone for two stage alarms
- Lockable base
- Suitable for outdoor use

Operating Voltage	110 to 230Vac
Operating Current (tone 3)	16mA
Operating Temperature	-10°C to +55°C

Sound Output (tone 3)	102dB(A)
Housing	ABS

545049

Colour	Order Code	Price Each				
		1+	10+	25+	50+	100+
Red	175-1901 ●	73.70	70.73	68.81	63.35	59.75

Siren - Motor Driven

Mini Mono P - Fire/Alarm Sirens



High Voltage

Small sirens designed for fire and general signalling applications. They have a separate mounting plate (suitable for BESA box mounting) with bayonet locking action for ease of installation, and a locking screw for additional security.

- High-quality siren sound
- Low voltage DC and high voltage AC for use in all applications

Voltage	881-0303 24V 881-0311 110V/230V AC
Current	0.5A 0.13A
Output	103dB@ 1m 100dB@ 1m
Frequency	1000Hz 1000Hz

Rating	Continuous	Continuous
Temperature Range	-30°C to +80°C	-30°C to +80°C
IP Rating	IP 44	IP 44
Weight	200g	500g
Mfrs. List no.	18-980226	18-980228

386409

Description	Order Code	Price Each		
		1+	5+	10+
24V DC	881-0303 ▲	152.90	142.80	135.20
110/230V AC	881-0311 ▲	152.92	136.58	129.57

Siren - Motor Driven - continued

Mono 72 - High Output Sirens



Powerful motor driven sirens producing clear high output siren sounds. With their weather-proof design they can be used both indoors and outdoors for security, fire alarm, process control alarm and general safety warnings.

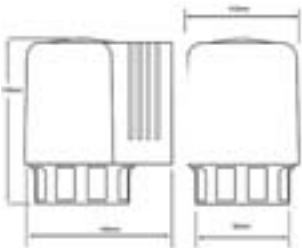
- High output siren sound (120dB)
- Rugged construction for use in all environments
- High voltage AC
- Mounting bracket for ease of installation
- Long life
- Colour: Red/Black

	881-0168	881-0176	
Voltage	110V AC/DC	230V AC/DC	
Current	1.0A	0.46A	
Output	120dB@ 1m	120dB@ 1m	
Frequency	1800Hz	1800Hz	
Rating	Continuous	Continuous	
Temperature Range	-30°C to +45°C	-30°C to +45°C	
IP Rating	IP65	IP65	
Weight	1.7kg	1.7kg	
Mfrs. List no.	18-980203	18-980205	386403

Price Each

Description	Order Code	1+	5+	10+
110V AC/DC	881-0168 ▲	386.64	350.01	326.00
230V AC/DC	881-0176 ▲	386.64	350.01	326.00

Master Blaster - High Output Siren



A powerful motor driven siren producing a very high sound output, designed for use as an internal or external security alarm.

- High output 230V AC siren sound designed to deter intruders
- Choice of 12V DC or 24V AC trigger relay for both security and fire use
- Continuously rated
- Separate mounting bracket for ease of installation
- Pre-wired and supplied with 1m of cable
- Colour: Yellow

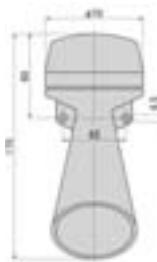
Voltage	230Vac	Temperature Range	-30°C to +45°C
Current	1.0A	IP Rating	-
Output	127dB@ 1m	Weight	1.8kg
Frequency	1800Hz	Mfrs. List No.	18-980043
Rating	Continuous		

Price Each

Description	Order Code	1+	5+	10+
Siren	881-0150 ▲	454.87	411.92	382.87

Signal Horn

Signal Horn 582



Small horn with trumpet that should be mounted with horn outlet facing downwards.

- Sound output 92 dB at 1M
- ABS grey housing
- Current consumption 24V dc (70mA) 230V ac (15mA)
- For internal or external use

249374

Price Each

Model	Order Code	1+	4+
24v dc	433-6835	87.90	80.30
230v ac	433-6847	86.79	79.25

Bells

Heavy Duty Bells

Adaptabel Series



- Universal Mounting Plate
- Rugged Die-Cast Construction
- Robust and Reliable
- Optional IP65 Back Box
- Operating Temperature -20°C to +45°C

Supply Voltage	Size	Sound Level	Current	Mfrs. List No.	Order Code
24v Ac	101 mm/4"	99dB	62 A	A4B-K-24DCFA	164-9252
24v Ac	101 mm/4"	99dB	n/a	A4B-K-24ACFA	164-9253
12v Dc	152 mm/6"	99dB	22 A	A4B-K-230ACFA	164-9254
24v Dc	152 mm/6"	101dB	125 A	A6B-K-12DCFA	164-9256
24v Ac	152 mm/6"	101dB	62 A	A6B-K-24DCFA	164-9257
24v Ac	152 mm/6"	101dB	n/a	A6B-K-24ACFA	164-9258
115v Ac	152 mm/6"	101dB	34 A	A6B-K-115ACFA	164-9259
230v Ac	152 mm/6"	101dB	22 A	A6B-K-230ACFA	164-9260
24v Dc	203 mm/8"	102dB	62 A	A8B-K-24DCFA	164-9261
230v Ac	203 mm/8"	102dB	22 A	A8B-K-230ACFA	164-9263
				AB-K-WPBBFA	164-9264

526615

Mfrs.

Price Each

List No.	Order Code	1+
A4B-K-24DCFAFA	164-9252 ●	121.12
A4B-K-24ACFAFA	164-9253 ●	121.12
A4B-K-230ACFAFA	164-9254 ●	121.12
A6B-K-12DCFAFA	164-9256 ●	121.12
A6B-K-24DCFAFA	164-9257 ●	125.74
A6B-K-24ACFAFA	164-9258 ●	125.74
A6B-K-115ACFAFA	164-9259 ●	125.74
A6B-K-230ACFAFA	164-9260 ●	125.74
A8B-K-24DCFAFA	164-9261 ●	165.46
A8B-K-230ACFAFA	164-9263 ●	165.46
AB-K-WPBBFAFA	164-9264 ●	87.09

Centrifugal Motorised Bell - 24V dc



- Centrifugal motorised bell for fire alarm signalling
- 2 sizes, smallest suitable for hotel bedrooms where 75dB (A) bedhead sound level is required
- Low current consumption
- 4 way terminal block for loop wiring
- Terminal capacity 2.5mm²
- Red steel gong
- Black moulded polycarbonate base

Diameter	Height	Nom. Operating Voltage	Voltage Range	Current @ Nom. Voltage	Nom Output Level @ 1m	Order Code
102(4")	63	24V dc	18 to 30V	20mA	84dB(A)	132-0825
152(6")	63	24V dc	18 to 30V	25mA	93/95dB(A)	132-0826

Mfrs. List No. CFB4D24 = 132-0825, CFB6D24 = 132-0826

227845

Price Each

Diameter	Order Code	1+	10+	25+	50+	+
102(4")	132-0825 ●	49.69	46.70	45.72	42.08	--
152(6")	132-0826 ●	49.69	46.70	45.72	42.08	--



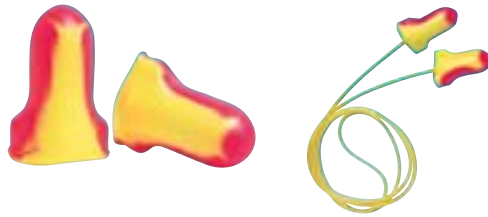
Collaborative e-community

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Earplugs

Howard Leight® Laser Lite™ Foam Ear Plugs



- Constructed from non-irritating, non-allergenic foam
- Designed for high levels of comfort and protection
- Packed in pairs in a poly bag
- AS/NZS 1270:2002 standards approved
- SLC80 25dB Class 4

250408

Description	Quantity	Order Code	Price Per Box		
			1+	5+	10+
Un-Corded Ear Plugs	200 Pairs	711-6834	52.41	50.80	48.32
Corded Ear Plugs	100 Pairs	133-2786	53.53	51.92	49.39

Safety Spectacles

Sidewinder Safety Glasses



- The crystal clear, clear lens and smoke lens feature the 'ALS' anti-fog/anti-scratch coating on both sides of the lens
- Polycarbonate front frame
- Hydrated nylon temple arms
- Rubber nose pads/ temple inserts
- Dual lens, half frame design
- 8 Base curved lens
- Distortion free lens
- ALS anti fog/anti scratch coating
- Certified to AS/NZS 1337: for Medium Impact protection

443309

Type/Size	Mfrs. List No.	Order Code	Price Each
Sidewinder Dark Gunmetal Clear AF/HC	1615501	124-8550	19.65
Sidewinder Dark Gunmetal Smoke AF/HC	1615502	124-8551	19.65
Sidewinder Dark Gunmetal Blu/Flash HC	1615504	124-8552	22.62

Blade Safety Glasses



- All polycarbonate frames and single piece lens
- Clear and smoke lens versions with anti-fog/anti-scratch coatings
- Hard coat only in the light smoke, silver mirror versions
- Tested & Approved to AS/NZS1337:1992 (Medium Impact)
- Weight 26g

373342

Frame Colour	Lens Type	Mfrs. List No.	Order Code	1+	5+	10+
Clear	Clear	1668201	807-2353	9.35	9.07	8.91
Smoke	Smoke	1668202	807-2361	9.35	9.07	8.91
Silver	Silver Mirror	1668203	807-2370	11.60	11.24	10.71
Silver	Blue Mirror	1668204	807-2388	11.60	11.24	10.71
Silver	Ultra Light Mirror	1668205	807-2396	11.83	11.46	10.89
Grey	Pouch with String	3209927	807-3147	5.65	5.12	4.65

Arctic



- Modern styling offers a virtual weightless fit
- 100% UV protection

258462

Colour	Mfrs. List No.	Order Code	1+	5+	10+
Amber Anti-fog	227634AF	437-2578	18.49	17.91	17.00
Blue mirror	227634B	437-2580	16.94	15.68	14.58
Clear	227634C	437-2591	12.18	11.83	11.58
Clear Anti-fog	227634CF	437-2608	16.78	16.22	15.49
Smoke	227634S	437-2610	12.18	11.83	11.24

Supervue



- Impact scratch resistant lenses
- 100% UV protection
- Side air vents enable superior ventilation
- Allows for prescription glasses to be worn

258456

Style	Mfrs. List No.	Order Code	Price Each		
			1+	5+	10+
Clear	225228	437-2773	10.12	9.82	9.33
Smoke	225229	437-2785	11.83	11.49	10.91

Disposable Respirators

Comfo II Respirators



- High degree of comfort
- Special face piece material is designed to give excellent chemical resistant
- Easy breathing through large inhalation and exhalation ports
- Easy to adjust
- Provides daylong comfort

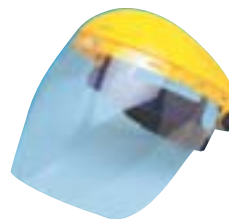
Description	Order Code
Respirator	437-2980
Filter P2 Organic vapors, dust, pollen	437-2992
Filter P3 Organic vapors, dust, pollen, fumes, acids & toxic particles	437-3005

260975

Mfrs. List No.	Pack Qty	Order Code	Price Per Pack		
			1+	5+	10+
224823MC	1	437-2980	34.34	33.15	32.05
225124	10	437-2992	83.18	82.26	--
430302	6	437-3005	275.69	--	--

Protective Workwear

Bullet Faceshield



- Latest faceshield design
- Complete assembly including lightweight Browguard, with adjustable head harness
- Moulded clear polycarbonate visor
- Replacement visors available

260948

Description	Order Code	Price Each		
		1+	5+	10+
Faceshield - Complete	437-2517	50.79	48.51	48.14
Replacement Visor	437-2529	26.41	25.14	24.55

General Handling Gloves

Nylon Gloves - High Tech Gloves



- High Tech Antistatic gloves
- 100% Nylon seamless knitted gloves
- Polyurethane coated palm & finger tips
- Size : 7/S, 8/M, 9/L, 10/XL
- Pack quantity = 12 pairs
- EN1149-1:1995 Approved

418718

Type/Size	Mfrs. List No.	Order Code	Price Per Pair		
			12+	24+	48+
7/S	77101	108-3800	2.55	2.33	2.10
8/M	77102	108-3801	2.55	2.33	2.10
9/L	77103	108-3802	2.55	2.33	2.10
10/XL	77104	108-3803	2.55	2.33	2.10

General Handling Gloves - continued

Grain Cowhide Rigger



- Soft & fine cowhide grain leather
- With keystone thumb
- Brown cotton bending on top
- Wrist length
- Size : 8, 9, 10 & 11
- Pack quantity = 12 pairs

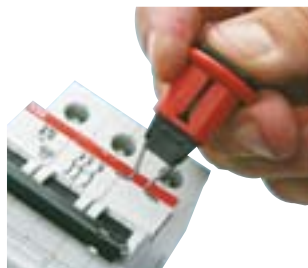


418737

Type/Size	Mftrs. List No.	Order Code	Price Per Pair		
			12+	24+	48+
Medium	13142	108-3765	6.39	5.89	5.28
Large	13143	108-3766	7.12	6.58	6.17
X Large	13144	108-3767	6.84	6.32	5.67

Lockouts

Eurasion Pin Out Standard Lockout



- DINN style circuit breaker lockout devices
- Easy to install and can be teamed with a range of Safety Lockout Padlocks and hasps
- Ensures the safety of workers whilst electrical maintenance or repairs are carried out
- Suitable for some Allen Bradley, ABB, Clipsal, Hager, Merlin Gerin, Proteus and Wylex circuit breakers

449623

Mftrs. List No.	Order Code	Price Each		
		1+	5+	10+
90844	128-7763	23.33	22.47	21.66

Electrician's Mini Lockout Pouch



- Kit includes a combination of lockouts for older style breaker and more modern DINN style breakers
- Reducing the need to carry multiple kits
- Kit components:

- 1 - Min. Circuit Breaker POS
- 1 - Min. Circuit Breaker PIS
- 1 - Min. Circuit Breaker POW
- 1 - Min. Circuit Breaker TBLO
- 1 - No hole Circuit Breaker Sml
- 1 - No hole Circuit Breaker Lrg

- 1 - Universal Multi-Pole Lockout
- 1 - Dang. Do Not Operate - Poly Tags
- 1 - Dang. Out Of Service - Poly Tags
- 1 - Lockout Jaws 25mm
- 1 - Lockout Pouch
- 1 - Red Brady Safety Lock 38mm with label

449353

Mftrs. List No.	Order Code	Price Each		
		1+	5+	10+
848284	128-7770	337.89	325.37	313.74



New products added weekly
700 new products added online every week!



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Brady Large Economy Lockout Tags



Style A

Style B

Style C



Style D

Style E

Style F



Style G

Style H

Style I

- Choice of Cardstock or Polypropylene
- Size 150 x 100mm
- 5mm Hole Diameter
- Reverse side options available side, 1 pictured

449698

Reverse Side	Material	Style	Pack Mftrs.		Order Code	Price Each	
			Qty	List No.		1+	
1	Cardstock	A	100	842357	129-3193	60.30	
1	Polypropylene	A	10	842375	129-3670	30.44	
1	Cardstock	B	100	842358	129-3661	60.30	
1	Polypropylene	B	10	842376	129-3671	30.44	
1	Cardstock	C	100	842359	129-3662	60.30	
1	Polypropylene	C	10	842377	129-3672	30.44	
1	Cardstock	D	100	842360	129-3663	60.30	
1	Polypropylene	D	10	842378	129-3673	30.44	
2	Cardstock	E	100	842365	129-3664	57.32	
2	Polypropylene	E	10	842383	129-3674	30.44	
2	Cardstock	F	100	842366	129-3665	60.30	
2	Polypropylene	F	10	842384	129-3675	30.44	
2	Cardstock	G	100	842367	129-3666	60.30	
2	Polypropylene	G	10	842385	129-3676	30.44	
2	Cardstock	H	100	842368	129-3668	60.30	
2	Polypropylene	H	10	842386	129-3677	30.44	
2	Cardstock	I	100	842372	129-3669	60.30	
2	Polypropylene	I	10	842390	129-3678	30.44	
2	Polypropylene	J	10	842391	129-3681	30.44	



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