

Signalling selection chart



	VISUAL								SOUNDER & COM	BINATION						
					To the second se	Street &									SUPER 8	SUPER 8
Series	LED80 Beacon	LED195 Beacon	LED100 ECO Beacon	LEDA100 ECO Beacon Sounder	LEDD125 Beacon	LEDA125 Sounder Beacon	LED400/401 Beacon	LED-TL Traffic Lights	Yodalarm YA40 Sounder	Yodalight YL40 Sounder Beacon	Yodalarm YA50 Sounder	Yodalight YL50 Sounder Beacon	Yodalarm YA80 Sounder	Yodalight YL80 Sounder Beacon	Yodalarm YA80S Sounder	Yodalight YL80S Sounder Beacon
Step 1a - Sel	ect light output															
Light source	12 LEDs Static Flashing (60FPM) 120° Light axis	36 LEDs Static Flashing (60/120FPM) 120° Light axis	S Flashing	LEDs itatic g (160FPM) Light axis	St Flashing (6	LEDs atic 50/120FPM) ght axis	144 LEDs Static Flashing (60FPM) Rotating (140RPM) 360° Light axis	36 LEDs Static 120° Light axis	-	Xenon Flashing (60FPM)	-	Xenon Flashing (60FPM)	-	Xenon Flashing (60FPM)	-	Xenon Flashing (60FPM)
Step 1b - Se	elect sound outp	ut (use decibel cha	rts below)													
Sound @1m	-	-	_	80dB Piezo buzzer	-	90dB Piezo buzzer	_	_	108d	B (32 tones)	112d	B (32 tones)	116d	B (32 tones)	120dB	(32 tones)
Step 2 – Sel	lect the voltage r	equired														
Voltage	10-100 VDC (02) 115-230 VAC (04)	8-20 VAC/DC (01) 20-30 VAC/DC (02) 30-85 VAC/DC (03) 85-280VAC & (05) 85-380VDC	10-17 VAC/ 20-30 VAC/ 35-85 VAC/ 85-280 VAC 85-380 VDC	/DC (02) /DC (03) C & (05)	24VDC RA 24 VDC 115 VAC 230 VAC	G LED-Tricolor (01) (02) (03) (04)	24 VDC (401) 90-370 VDC (400) 70-265 VAC (400)	8-20 VAC/DC (01) 20-30 VAC/DC (02) 35-85 VAC/DC (03) 85-280 VAC & (05) 85-380 VDC	24 VAC (I)	24 VDC (D50) 48 VDC (F50) 115 VAC (L50) 230 VAC (N50)	24 VDC (D) 48 VDC (F) 24 VAC (I) 115 VAC (L) 230 VAC (N)	24 VDC (D50) 48 VDC (F50) 115 VAC (L50) 230 VAC (N50)	24 VDC (D) 48 VDC (F) 115 VAC (L) 230 VAC (N)	24 VDC (D50) 48 VDC (F50) 115 VAC (L50) 230 VAC (N50)	24 VDC (D) 48 VDC (F) 115 VAC (L) 230 VAC (N)	24 VDC (D50) 48 VDC (F50) 115 VAC (L50) 230 VAC (N50)
Step 3 - Selec	ct lens colour: AM	BER (01) Warning, pro	ceed with care	/ <mark>RED (02)</mark> - Serioι	s danger! / BLU	E (03) - Process	notice, such as toxic	c gas alarms / GF	REEN (04) - OK,	proceed as normal	CLEAR (05) - No	o specific meaning	/ OPAL - No spe	cific meaning.		
Colour	01 02 03 04	01 02 03 04 05	01	02 04	01 02 0	3 04 05	01 02 03 04 05	01 02 04	-	ARBGCO	-	ARBGCO	-	ARBGCO	-	ARBGCO
Additional in	nformation															
IP rating	IP67 Air-tight Submersion in water	IP65 Air-tight Rain/spray/splash	Air	P65 r-tight oray/splash	Air-	tight ray/splash	IP65 Air-tight Rain/spray/splash	IP65 Air-tight Rain/spray/splash	A	IP65 ir-tight pray/splash				IP66 Air-tight ray/splash/sea conditions	;	
Temp (°C)	-20 to +55	-25 to +55	-25	i to +55	-20	to +45	-25 to +55	-25 to +55	-3	5 to +70				-35 to +70		
HxW	50mm x 76mm	73mm x 104mm	107mm x 72mm	119mm x 90mm	162mm	x 98mm	205mm x 150mm	104mm x 108mm	91.5mm x 91.5mm	183mm x 91.5mm	136mm x 136mm	194mm x 136mm	219mm x 219mm	276mm x 219mm	219mm x 219mm	276mm x 219mm
Catalogue Order	LED80-02-01 1 2 3	LED195-02-02 1 2 3	LED100-02-03 1 2 3	LEDA100-02-04 1 2 3	LEDD125-02-05 1 2 3	LEDA125-02-02 1 2 3	LED401-02-01 1 2 3	LED-TL-02-02 1 2 3	<u>YA40/D/RN/WR</u> 1 2	YL40/F50/A/RN/WR 1 2 3	YA50/I/RF/WR 1 2	YL50/N50/G/RF/WR 1 2 3	YA80/L/RF/WR 1 2	YL80/N50/C/RF/WR 1 2 3	YA80/D/RF/SU/WR	YL80/N50/R/RF/SU/WR 1 2 3 1
Number Guide Example	Step1 Step2 (10-100 VDC) Step3 (Amber)	Step1 Step2 (20-30 VAC/DC) Step3 (Red)	Step1 Step2 (20-30 VAC/DC) Step3 (Blue)	Step1 Step2 (20-30 VAC/DC) Step3 (Green)	Step1 Step2 (24 VDC) Step3 (Clear)	Step1 Step2 (24 VDC) Step3 (Red)	Step1 Step2 (24 VDC) Step3 (Amber)	Step1 Step2 (20-30 VAC/DC) Step3 (Red)	Step1 Step2 (24 VDC)	Step1 Step2 (48 VDC) Step3 (Amber Xenon)	Step1 Step2 (24 VAC)	Step1 Step2 (230 VAC) Step3 (Green Xenon)	Step1 Step2 (115 VAC)	Step1 Step2 (10-60 VDC) Step3 (Clear Xenon)	Step1 Step2 (24 VDC)	Step1 Step2 (10-60 VDC) Step3 (Red Xenon)

Beacon - selection

Environmental factors determining selection

- The light output required for the beacon and distance the signal is required to travel
- · The ambient level of existing light
- The IP rating of the beacon
- · Safe atmosphere or potentially explosive atmosphere

The intensity of the light can be reduced as it passes through the dome of the beacon. The extent of this reduction is dependent on the type of lamp used and the colour of the lens. The table below gives an indication of the percentage of light that will pass through the lens for different light sources and lens colours.

Colour	Filament	Halogen	Xenon	LED	
Clear (05)	100%	100%	100%	100%	
Amber (01)	70%	70%	70%	100%	
Red (02)	30%	27%	23%	100%	
Green (04)	12%	15%	25%	100%	
Blue (03)	8%	10%	13%	100%	

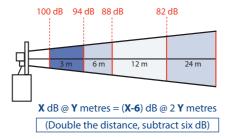
Sounder - selection

Factors determining sounder selection

- · Ambient noise in the environment
- The duration of signal required
- · The noise level required and distance of signal

What happens to sound over distance?

In selecting a sounder for a particular application, the table to the right can be used as a guide as to the sound level expected at a certain distance away. Local conditions such as wind speed and direction or objects masking the sound path will change the end result. In difficult conditions, the distances a sound can be heard, may be significantly less.



Decibel level at distance from source

		Decibel level (dB) at source									
	1m	80	85	90	95	100	105	110	115	120	
Distance from source (m)	2m	74	79	84	89	94	99	104	109	114	
	3m	70	75	80	85	90	95	100	105	110	
	5m	66	71	76	81	86	91	96	101	106	
	10m	60	65	70	75	80	85	92	95	100	
	20m	54	59	64	69	74	79	86	89	94	
	30m	50	55	50	65	70	75	80	85	90	
	50m	46	51	56	61	66	71	76	81	86	
	100m	40	45	50	55	60	65	72	75	80	
	200m	-	39	44	49	54	59	66	69	74	
	400m	-	-	40	43	50	53	60	63	70	
	500m	-	-	-	41	46	51	56	61	66	
	1000m	-	-	-	-	40	45	50	55	60	
	2000m	-	-	-	-	-	39	44	49	54	
	3000m	-	-	-	-	-		40	45	50	
	5000m	-	-	-	-	-		-	41	46	

Decibel values at a distance of 1 meter from source

	180	Loudest possible
100 100 10	170	Rocket launch
120 - 180dB Very high noise	160	Ear drum bursts
Very noisy factories, Outdoor use/marine	150	Threshold of pain
Outdoor dse/manne	140	Rock concert
	130	Air raid siren
100 - 120dB	120	Jack hammer
High noise Noisy factories,	110	Riveting machine
General outdoor use	100	Chain saw
65 - 100dB Medium noise		Welder
Commercial premises,		Vaccum cleaner
hotels, factories		Noisy restaurant
	60	Normal conversation
0 - 65dB	50	Quiet office
Low noise	40	Library
Close up use only Quiet background	30	Whisper
	20	Leaves rustling
	10	Breathing

IP rating guide

Note* IP67 products are not automatically rated at IP65/6 unless stated

	1st	1st digit refers to protection from solids (6 = completely dust tight)								
IP	6	5	Protection from water jets (6mm nozzle)							
ΙP	6	6	Protection from powerful water jets (12mm nozzle)							
IP	6	7	Protection from imersion in water (1m for 30mins)							



