ISSUE	MOD No.	REASON - INITIAL - DATE
A		INTRODUCTION RSR - 16/03/2021

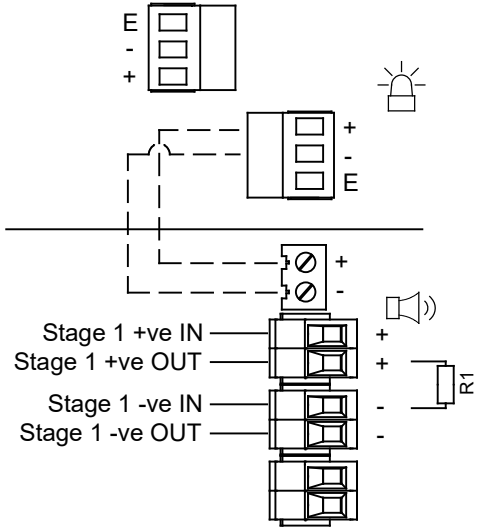
WIRING LINKING BEACON & SOUNDER FACTORY FITTED

R1 OPTIONAL LINE MONITORING RESISTOR, CUSTOMER SUPPLIED, RECOMMENDED MINIMUM VALUES:
14V MAX SYSTEM = 120Ω MIN, 2W MIN OR 1KΩ MIN, 0.5W MIN
28V MAX SYSTEM = 470Ω MIN, 2W MIN OR 2.4KΩ MIN, 0.5W MIN

Linked Sounder & Beacon Activation (Default)

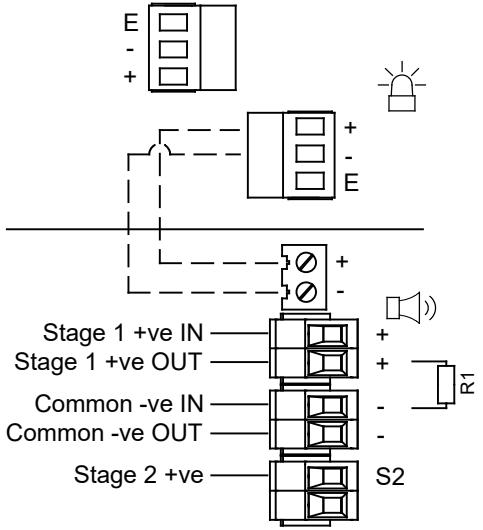
Single Stage Configuration — Config.: 1a

Line Monitoring
Set to positive switching (default)
Stage 1: Apply Power to Stage 1 +ve & Stage 1 -ve



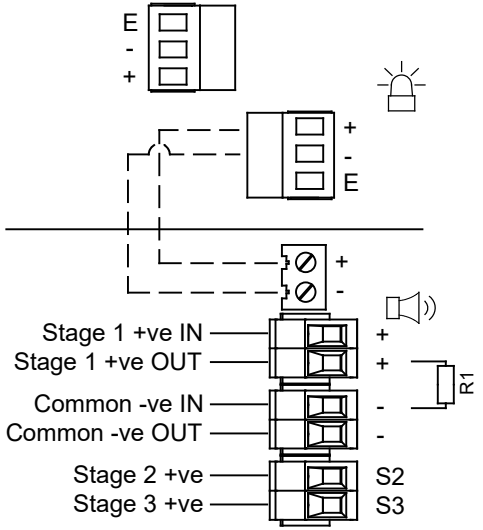
Two Stage Configuration — Config.: 1b

Common Negative
Set to positive switching (default)
Stage 1: Apply Power to Stage 1 +ve & Common -ve
Stage 2: Apply Power to Stage 2 +ve & Common -ve



Three/Four Stage Configuration — Config.: 1c

Common Negative
Set to positive switching (default)
Stage 1: Apply Power to Stage 1 +ve & Common -ve
Stage 2: Apply Power to Stage 2 +ve & Common -ve
Stage 3: Apply Power to Stage 3 +ve & Common -ve
Stage 4: Apply Power to Stage 2 +ve, Stage 3 +ve & Common -ve



DRAWING TO BS8888:2000
GEOMETRIC TOLERANCES TO ISO1101:1983
LINEAR DIMENSIONAL TOLS
ANGULAR DIMENSIONAL TOLS

STANDARDS
ALERTALARM RANGE

DRAWN	R.S.RAIT	16/03/2021
CHECKED	B.ISARD	16/03/2021
APPROVED	R.N.POTTS	16/03/2021

SURFACE FINISH | WEIGHT (Kg)
MATERIAL
ALTERNATIVE MATERIAL

e2S warning signals
EUROPEAN SAFETY SYSTEMS LTD
IMPRESS HOUSE
MANSELL ROAD
ACTON
LONDON W3 7QH
WWW.E2S.COM

ALL DIMENSIONS IN MM
IF IN DOUBT, ASK - DO NOT SCALE

A3

TITLE AL112NH & AL121H DC COMBINED SOUNDER & LED WIRING DIAGRAMS

SCALE	SHEET	DRAWING NUMBER
NTS	1 OF 6	D221-06-251

ISSUE	MOD No.	REASON - INITIAL - DATE
A		INTRODUCTION RSR - 16/03/2021

WIRING LINKING BEACON & SOUNDER FACTORY FITTED

R1 OPTIONAL LINE MONITORING RESISTOR, CUSTOMER SUPPLIED, RECOMMENDED MINIMUM VALUES:
14V MAX SYSTEM = 120Ω MIN, 2W MIN OR 1KΩ MIN, 0.5W MIN
28V MAX SYSTEM = 470Ω MIN, 2W MIN OR 2.4KΩ MIN, 0.5W MIN

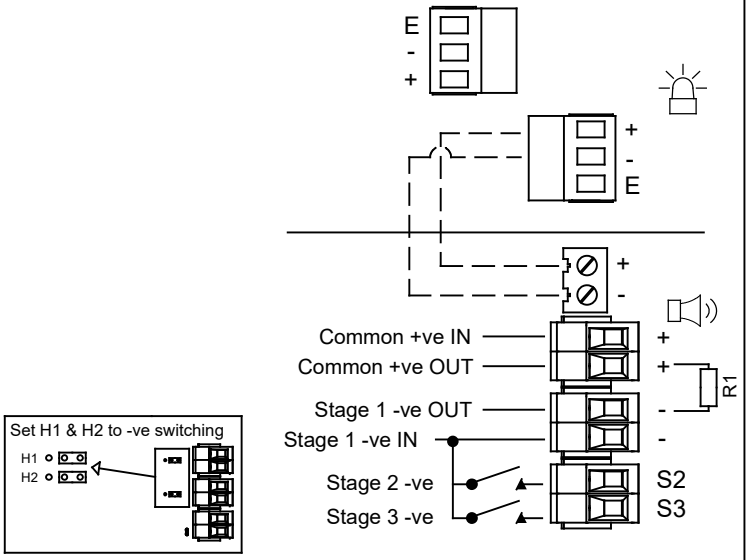
SWITCHES FOR STAGE OPERATION CUSTOMER SUPPLIED

Linked Sounder & Beacon Activation (Default)

Three/Four Stages. Voltage Free 2nd, 3rd & 4th Stage Activation Configuration — Config.: 2

Common Positive
Customer Set H1 & H2 to Negative Switching (See Below)

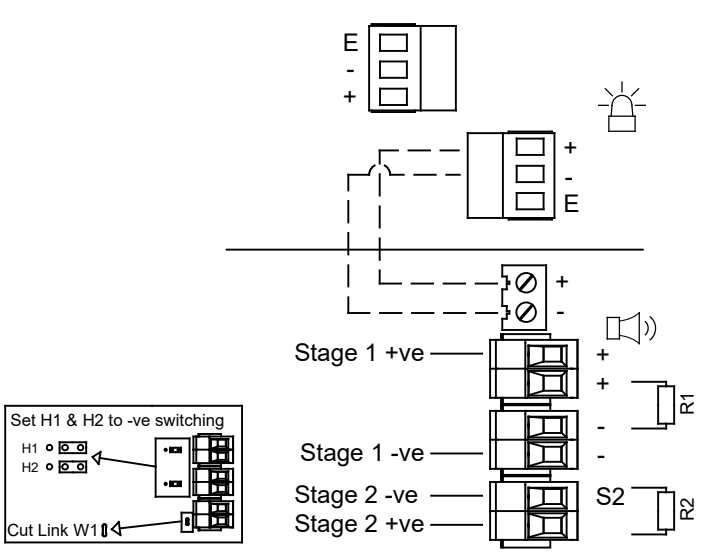
Stage 1: Apply Power to Common +ve & Stage 1 -ve
Stage 2: Apply Power to Common +ve & Stage 1 -ve & connect Stage 2 -ve to Stage 1 -ve
Stage 3: Apply Power to Common +ve & Stage 1 -ve & connect Stage 3 -ve to Stage 1 -ve
Stage 4: Apply Power to Common +ve & Stage 1 -ve
& connect Stage 2 -ve & Stage 3 -ve to Stage 1 -ve



Two Stage Configuration — Config.: 3

Independent Stage Input
Reverse Polarity Stage Monitoring

Stage 1: Apply Power to Stage 1 +ve & Stage 1 -ve
Stage 2: Apply Power to Stage 1 +ve & Stage 1 -ve & connect Stage 2 -ve to Stage 1 -ve



DRAWING TO BS8888:2000
GEOMETRIC TOLERANCES TO ISO1101:1983
LINEAR DIMENSIONAL TOLS
ANGULAR DIMENSIONAL TOLS

STANDARDS
ALERTALARM RANGE

DRAWN	R.S.RAIT	16/03/2021
CHECKED	B.ISARD	16/03/2021
APPROVED	R.N.POTTS	16/03/2021

SURFACE FINISH | WEIGHT (Kg)
MATERIAL
ALTERNATIVE MATERIAL

e2S warning signals
EUROPEAN SAFETY SYSTEMS LTD
IMPRESS HOUSE
MANSELL ROAD
ACTON
LONDON W3 7QH
WWW.E2S.COM

ALL DIMENSIONS IN MM
IF IN DOUBT, ASK - DO NOT SCALE

A3

TITLE AL112NH & AL121H DC COMBINED SOUNDER & LED WIRING DIAGRAMS

SCALE	SHEET	DRAWING NUMBER
NTS	2 OF 6	D221-06-251

ISSUE	MOD No.	REASON - INITIAL - DATE
A		INTRODUCTION RSR - 16/03/2021

WIRING LINKING BEACON & SOUNDER FACTORY FITTED

R1 OPTIONAL LINE MONITORING RESISTOR, CUSTOMER SUPPLIED, RECOMMENDED MINIMUM VALUES:
14V MAX SYSTEM = 120Ω MIN, 2W MIN OR 1KΩ MIN, 0.5W MIN
28V MAX SYSTEM = 470Ω MIN, 2W MIN OR 2.4KΩ MIN, 0.5W MIN

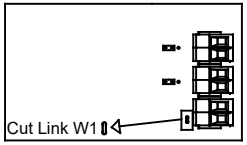
SWITCHES FOR STAGE OPERATION CUSTOMER SUPPLIED

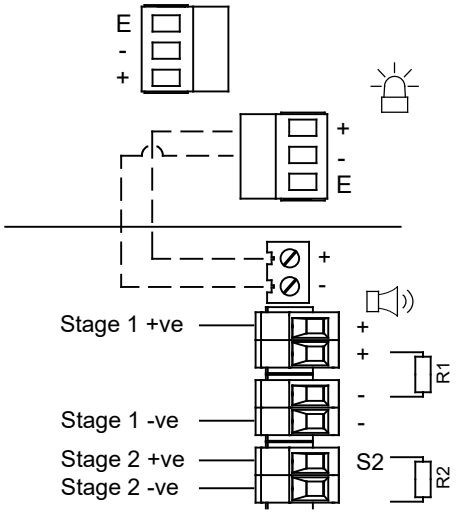
Linked Sounder & Beacon Activation (Default)

Two Stage Configuration — Config.: 4

independent Stage Input
Line Stage Monitoring (Use suitable monitoring relays/modules)
Not to be used for reverse polarity monitoring
Stage 1: Apply Power to Stage 1 +ve & Stage 1 -ve
Stage 1: Apply Power to Stage 2 +ve & Stage 2 -ve

CUSTOM CONFIGURATION CONTACT E2S WHEN ORDERING





DRAWING TO BS8888:2000
GEOMETRIC TOLERANCES TO ISO1101:1983
LINEAR DIMENSIONAL TOLS
ANGULAR DIMENSIONAL TOLS

STANDARDS
ALERTALARM RANGE

	DRAWN	DATE
	R.S.RAIT	16/03/2021
	CHECKED	DATE
	B.ISARD	16/03/2021
	APPROVED	DATE
	R.N.POTTS	16/03/2021

SURFACE FINISH | WEIGHT (Kg)

MATERIAL

ALTERNATIVE MATERIAL

e2S warning signals
EUROPEAN SAFETY SYSTEMS LTD
IMPRESS HOUSE
MANSELL ROAD
ACTON
LONDON W3 7QH
WWW.E2S.COM

ALL DIMENSIONS IN MM
IF IN DOUBT, ASK - DO NOT SCALE

A3

TITLE AL112NH & AL121H DC COMBINED SOUNDER & LED WIRING DIAGRAMS

SCALE	SHEET	DRAWING NUMBER
NTS	3 OF 6	D221-06-251

ISSUE	MOD No.	REASON - INITIAL - DATE
A		INTRODUCTION RSR - 16/03/2021

R1

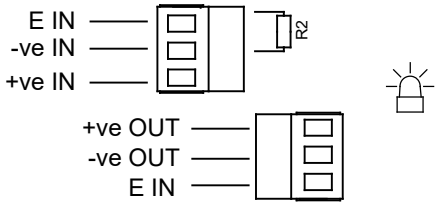
OPTIONAL LINE MONITORING RESISTOR, CUSTOMER SUPPLIED, RECOMMENDED MINIMUM VALUES:
14V MAX SYSTEM = 120Ω MIN, 2W MIN OR 1KΩ MIN, 0.5W MIN
28V MAX SYSTEM = 470Ω MIN, 2W MIN OR 2.4KΩ MIN, 0.5W MIN

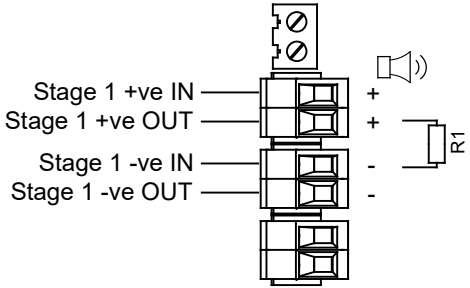
Independent Sounder & Beacon Activation (Remove Link Wires)

Single Stage Configuration — Config.: 5a

Line Monitoring
Set to positive switching (default)

Stage 1: Apply Power to Stage 1 +ve & Stage 1 -ve

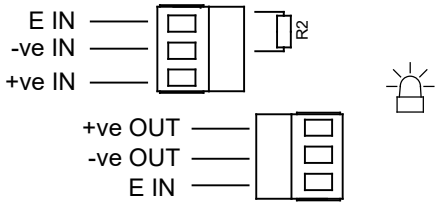


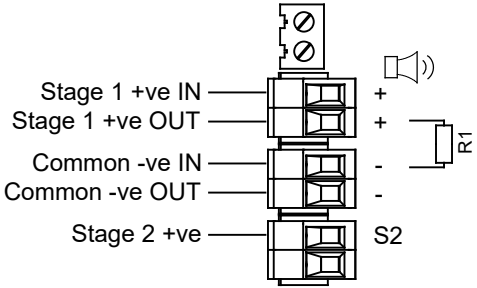


Two Stage Configuration — Config.: 5b

Common Negative
Set to positive switching (default)

Stage 1: Apply Power to Stage 1 +ve & Common -ve
Stage 2: Apply Power to Stage 2 +ve & Common -ve

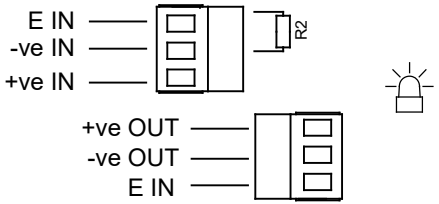


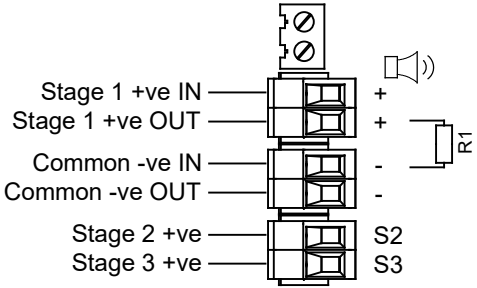


Three/Four Stage Configuration — Config.: 5c

Common Negative
Set to positive switching (default)

Stage 1: Apply Power to Stage 1 +ve & Common -ve
Stage 2: Apply Power to Stage 2 +ve & Common -ve
Stage 3: Apply Power to Stage 3 +ve & Common -ve
Stage 4: Apply Power to Stage 2 +ve, Stage 3 +ve & Common -ve





DRAWING TO BS8888:2000
GEOMETRIC TOLERANCES TO ISO1101:1983
LINEAR DIMENSIONAL TOLS
ANGULAR DIMENSIONAL TOLS

STANDARDS
ALERTALARM RANGE

DRAWN	R.S.RAIT	16/03/2021
CHECKED	B.ISARD	16/03/2021
APPROVED	R.N.POTTS	16/03/2021

SURFACE FINISH | WEIGHT (Kg)
MATERIAL
ALTERNATIVE MATERIAL

E2S warning signals
EUROPEAN SAFETY SYSTEMS LTD
IMPRESS HOUSE
MANSELL ROAD
ACTON
LONDON W3 7QH
WWW.E2S.COM

ALL DIMENSIONS IN MM
IF IN DOUBT, ASK - DO NOT SCALE

A3

TITLE AL112NH & AL121H DC COMBINED SOUNDER & LED WIRING DIAGRAMS

SCALE	SHEET	DRAWING NUMBER
NTS	4 OF 6	D221-06-251

ISSUE	MOD No.	REASON - INITIAL - DATE
A		INTRODUCTION RSR - 16/03/2021

R1 OPTIONAL LINE MONITORING RESISTOR, CUSTOMER SUPPLIED, RECOMMENDED MINIMUM VALUES:
14V MAX SYSTEM = 120Ω MIN, 2W MIN OR 1KΩ MIN, 0.5W MIN
28V MAX SYSTEM = 470Ω MIN, 2W MIN OR 2.4KΩ MIN, 0.5W MIN

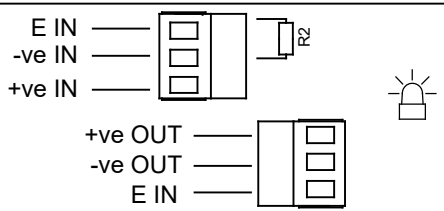
SWITCHES FOR STAGE OPERATION CUSTOMER SUPPLIED

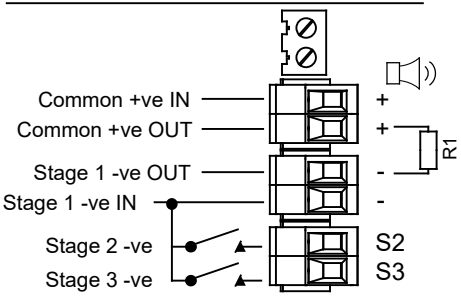
Independent Sounder & Beacon Activation (Remove Link Wire)

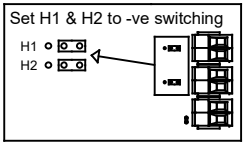
Three/Four Stages. Voltage Free 2nd, 3rd & 4th Stage Activation Configuration — Config.: 6

Common Positive
Customer Set H1 & H2 to Negative Switching (See Below)

Stage 1: Apply Power to Common +ve & Stage 1 -ve
Stage 2: Apply Power to Common +ve & Stage 1 -ve & connect Stage 2 -ve to Stage 1 -ve
Stage 3: Apply Power to Common +ve & Stage 1 -ve & connect Stage 3 -ve to Stage 1 -ve
Stage 4: Apply Power to Common +ve & Stage 1 -ve
& connect Stage 2 -ve & Stage 3 -ve to Stage 1 -ve



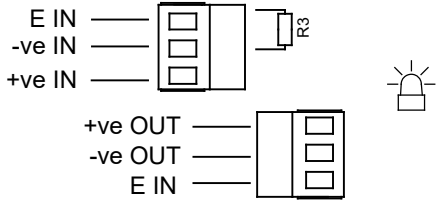


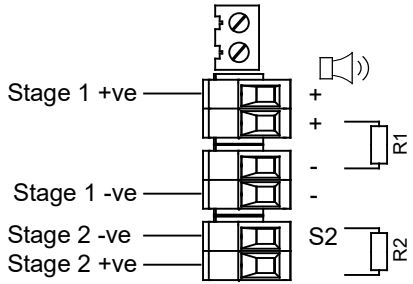


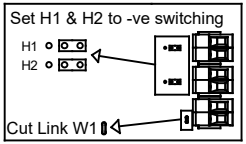
Two Stage Configuration — Config.: 7

Independent Stage Input
Reverse Polarity Stage Monitoring

Stage 1: Apply Power to Stage 1 +ve & Stage 1 -ve
Stage 2: Apply Power to Stage 1 +ve & Stage 1 -ve & connect Stage 2 -ve to Stage 1 -ve







DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS	DRAWN R.S.RAIT DATE 16/03/2021	SURFACE FINISH	WEIGHT (Kg)
	CHECKED B.ISARD DATE 16/03/2021	MATERIAL	
STANDARDS ALERTALARM RANGE	APPROVED R.N.POTTS DATE 16/03/2021	ALTERNATIVE MATERIAL	

e2S warning signals
EUROPEAN SAFETY SYSTEMS LTD
IMPRESS HOUSE
MANSELL ROAD
ACTON
LONDON W3 7QH
WWW.E2S.COM

ALL DIMENSIONS IN MM
IF IN DOUBT, ASK - DO NOT SCALE

A3

TITLE AL112NH & AL121H DC COMBINED SOUNDER & LED WIRING DIAGRAMS

SCALE	SHEET	DRAWING NUMBER
NTS	5 OF 6	D221-06-251

ISSUE	MOD No.	REASON - INITIAL - DATE
A		INTRODUCTION RSR - 16/03/2021

R1 OPTIONAL LINE MONITORING RESISTOR, CUSTOMER SUPPLIED, RECOMMENDED MINIMUM VALUES:
14V MAX SYSTEM = 120Ω MIN, 2W MIN OR 1KΩ MIN, 0.5W MIN
28V MAX SYSTEM = 470Ω MIN, 2W MIN OR 2.4KΩ MIN, 0.5W MIN

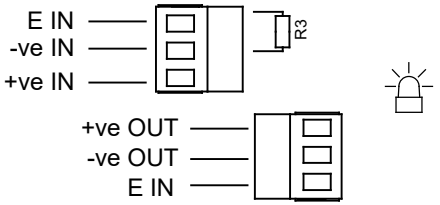
SWITCHES FOR STAGE OPERATION CUSTOMER SUPPLIED

Independent Sounder & Beacon Activation (Remove Link Wires)

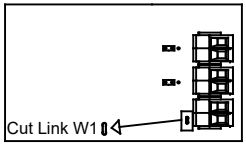
Two Stage Configuration — Config.: 8

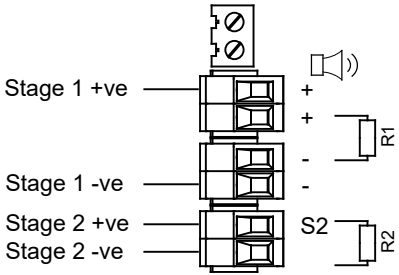
Independent Stage Input
Line Stage Monitoring (Use suitable monitoring relays/modules)
Not to be used for reverse polarity monitoring

Stage 1: Apply Power to Stage 1 +ve & Stage 1 -ve
Stage 1: Apply Power to Stage 2 +ve & Stage 2 -ve



CUSTOM CONFIGURATION CONTACT E2S WHEN ORDERING





DRAWING TO BS8888:2000
GEOMETRIC TOLERANCES TO ISO1101:1983
LINEAR DIMENSIONAL TOLS
ANGULAR DIMENSIONAL TOLS

STANDARDS
ALERTALARM RANGE

DRAWN	R.S.RAIT	16/03/2021
CHECKED	B.ISARD	16/03/2021
APPROVED	R.N.POTTS	16/03/2021

SURFACE FINISH | WEIGHT (Kg)
MATERIAL
ALTERNATIVE MATERIAL

e2S warning signals
EUROPEAN SAFETY SYSTEMS LTD
IMPRESS HOUSE
MANSELL ROAD
ACTON
LONDON W3 7QH
WWW.E2S.COM

ALL DIMENSIONS IN MM
IF IN DOUBT, ASK - DO NOT SCALE

A3

TITLE AL112NH & AL121H DC COMBINED SOUNDER & LED WIRING DIAGRAMS

SCALE	SHEET	DRAWING NUMBER
NTS	6 OF 6	D221-06-251