A121 Alarm Sounder

The A121 is a very high output, 126dB(A) alarm sounder. High SPL in a robust, fire retardant IP66 housing ensure the A121 is suitable for all general signalling applications including fire, security and process control.

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UNIT 26, STADIUM BUSINESS PARK, • BALLYCOOLIN ROAD, • DUBLIN 11, • IRELAND
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Features:

- Automatic synchronisation on multi-sounder system.
- Continuously rated.
- Stainless steel fixings.
- Unit can be mounted using external lugs or internal BESA compatible fixing positions.
- Duplicate cable terminations (in & out for daisy-chain installations).
- Tropicalisation available on request.
- Available with custom tone configurations and frequencies.
- 'Programmable' version available:
  - 45 alarm tones
  - 4 remotely selectable stages
  - Any tone can be assigned to any stage
  - User configurable continuous frequency tone

Approvals:

- VdS approved to EN54-3 (CPD 89/106/EEC).
- UKOOA/PFEER compliant alarm tones.
- UL approved version available.
- GOST-R approved. Cert: POCC GB-JB05-B02228

Part codes:

Version:	Part code:
24V dc	A121DC24[x]
48V dc	A121DC48[x]
24V ac	A121AC24[x]
115V ac	A121AC115[x]
230V ac	A121AC230[x]
[x] = Housing colour:	R: Red, G: Grey

Suffix part number with '-P' for programmable, 4 stage, 45 tone version.

Suffix part number with '-UL' for UL approved version.

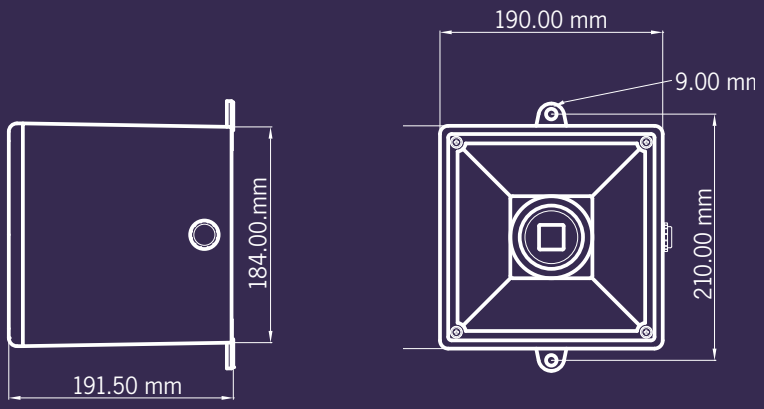
GOST-R

0786-CPD-20199

G205121

AlertAlight: AL121

SpectrAlarm: AB121



Specification:

Maximum output:	126dB(A) @ 1 metre
Nominal output:	121dB(A) @ 1m +/- 3dB - Tone 2
No. of tones:	45 (UKOOA / PFEER compliant)
No. of stages:	3
Volume control:	Max. 121dB(A); Min. 112dB(A) - Tone 2
Effective range:	300m @ 1KHz
Voltages DC:	24V dc (10-30V dc); 48V dc (35-60V dc) [DC units can use 24V ac for single stage applications.]
Voltages AC:	24V ac; 115V ac; 230V ac
Stage switching:	Negative or optional positive
Ingress protection:	IP66
Housing material:	High impact UL94 V0 & 5VA FR ABS
Colour:	Red (RAL3000) & grey (RAL7038)
Cable entries:	2 x M20 clearance gland entries in side & back
Terminals:	0.5 to 4.0mm² cables.
Operating temperature:	-25 to +55°C
Storage temperature:	-40 to +70°C
Relative humidity:	90% at 20°C.
Weight :	DC: 2.10kg AC:2.70kg

Alarm sounder:

Version:		Voltage range:	Current mA:
24V dc		10-30V dc	950mA*
48V dc		35-60V dc	600mA*
24V ac	50/60Hz	+/-10%	1000mA
115V ac	50/60Hz	+/-10%	240mA
230V ac	50/60Hz	+/-10%	120mA
* current at nominal voltage on Tone 2			

*SPL data +/-3dB(A). Measured at optimum voltage.

Tone table:

Stage 1	Frequency Description	dB @ 1m	Stage 2	Stage 3
Tone 1	340 Hz Continuous	113dB(A) @ 1m	Tone 2	Tone 5
Tone 2	800/1000Hz @ 0.25 sec Alternating - BS5839 Alarm tone	121dB(A) @ 1m	Tone 17	Tone 5
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop - NEN 2575:2000	121dB(A) @ 1m	Tone 2	Tone 5
Tone 4	800/1000Hz @ 1Hz Sweeping	121dB(A) @ 1m	Tone 6	Tone 5
Tone 5	2400Hz Continuous	125dB(A) @ 1m	Tone 3	Tone 20
Tone 6	2400/2900Hz @ 7Hz Sweeping	123dB(A) @ 1m	Tone 7	Tone 5
Tone 7	2400/2900Hz @ 1Hz Sweeping	125dB(A) @ 1m	Tone 10	Tone 5
Tone 8	500/1200/500Hz @ 0.3Hz Sweeping	121dB(A) @ 1m	Tone 2	Tone 5
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	121dB(A) @ 1m	Tone 15	Tone 2
Tone 10	2400/2900Hz @ 2Hz Alternating	126dB(A) @ 1m	Tone 7	Tone 5
Tone 11	1000Hz @ 1Hz Intermittent	121dB(A) @ 1m	Tone 2	Tone 5
Tone 12	800/1000Hz @ 0.875Hz Alternating	121dB(A) @ 1m	Tone 4	Tone 5
Tone 13	2400Hz @ 1Hz Intermittent	125dB(A) @ 1m	Tone 15	Tone 5
Tone 14	800Hz 0.25sec on, 1 sec off Intermittent	120dB(A) @ 1m	Tone 4	Tone 5
Tone 15	800Hz Continuous	120dB(A) @ 1m	Tone 2	Tone 5
Tone 16	660Hz 150mS on, 150mS off Intermittent	118dB(A) @ 1m	Tone 18	Tone 5
Tone 17	544Hz (100mS)/440Hz (400mS) - AFNOR NF S 32-001	117dB(A) @ 1m	Tone 2	Tone 27
Tone 18	660Hz 1.8sec on, 1.8sec off Intermittent	118dB(A) @ 1m	Tone 2	Tone 5
Tone 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s - AFNOR NFC48-265	126dB(A) @ 1m	Tone 2	Tone 5
Tone 20	660Hz Continuous	118dB(A) @ 1m	Tone 2	Tone 5
Tone 21	554Hz/440Hz @ 1Hz Alternating	118dB(A) @ 1m	Tone 2	Tone 5
Tone 22	544Hz @ 0.875 sec. Intermittent	118dB(A) @ 1m	Tone 2	Tone 5
Tone 23	800Hz @ 2Hz Intermittent	120dB(A) @ 1m	Tone 6	Tone 5
Tone 24	800/1000Hz @ 50Hz Sweeping	120dB(A) @ 1m	Tone 29	Tone 5
Tone 25	2400/2900Hz @ 50Hz Sweeping	124dB(A) @ 1m	Tone 29	Tone 5
Tone 26	Bell	118dB(A) @ 1m	Tone 2	Tone 15
Tone 27	554Hz Continuous	117dB(A) @ 1m	Tone 26	Tone 5
Tone 28	440Hz Continuous	117dB(A) @ 1m	Tone 2	Tone 5
Tone 29	800/1000Hz @ 7Hz Sweeping	121dB(A) @ 1m	Tone 7	Tone 5
Tone 30	300Hz Continuous	114dB(A) @ 1m	Tone 2	Tone 5
Tone 31	660/1200Hz @ 1Hz Sweeping	121dB(A) @ 1m	Tone 26	Tone 5
Tone 32	Two tone chime.	118dB(A) @ 1m	Tone 26	Tone 15
Tone 33	745Hz @ 1Hz Intermittent	116dB(A) @ 1m	Tone 2	Tone 5
Tone 34	1000 & 2000Hz @ 0.5 sec Alternating - Singapore	121dB(A) @ 1m	Tone 38	Tone 45
Tone 35	420Hz @ 0.625 sec Australian Alert - AS2220	118dB(A) @ 1m	Tone 36	Tone 5
Tone 36	500-1200Hz 3.75sec /0.25sec. Australian Evac. - AS2220	121dB(A) @ 1m	Tone 35	Tone 5
Tone 37	1000Hz Continuous - PFEER Toxic Gas	121dB(A) @ 1m	Tone 9	Tone 45
Tone 38	2000Hz Continuous	122dB(A) @ 1m	Tone 34	Tone 45
Tone 39	800Hz 0.25sec on, 1 sec off Intermittent	120dB(A) @ 1m	Tone 23	Tone 17
Tone 40	544Hz (100mS)/440Hz (400mS) - AFNOR NF S 32-001	121dB(A) @ 1m	Tone 31	Tone 27
Tone 41	Motor Siren - slow rise to 1200 Hz	122dB(A) @ 1m	Tone 2	Tone 5
Tone 42	Motor Siren - slow rise to 800 Hz	121dB(A) @ 1m	Tone 2	Tone 5
Tone 43	1200 Hz Continuous	122dB(A) @ 1m	Tone 2	Tone 5
Tone 44	Motor Siren - slow rise to 2400 Hz	124dB(A) @ 1m	Tone 2	Tone 5
Tone 45	1KHz 1s on, 1s off Intermittent - PFEER Gen. Alarm	121dB(A) @ 1m	Tone 38	Tone 34

Country specific or custom tone configurations and alarm frequencies are available upon request.

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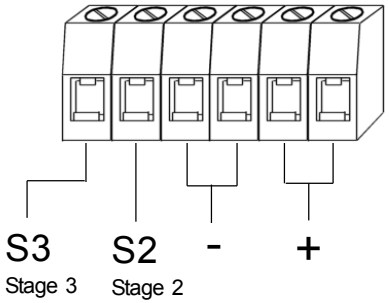
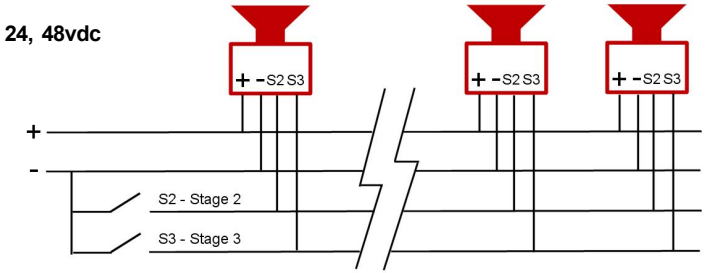
e2S warning signals

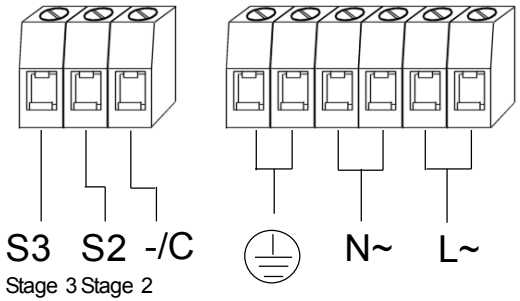
INSTALLATION INSTRUCTIONS

A121 - 45 Tone 'AlertAlarm'

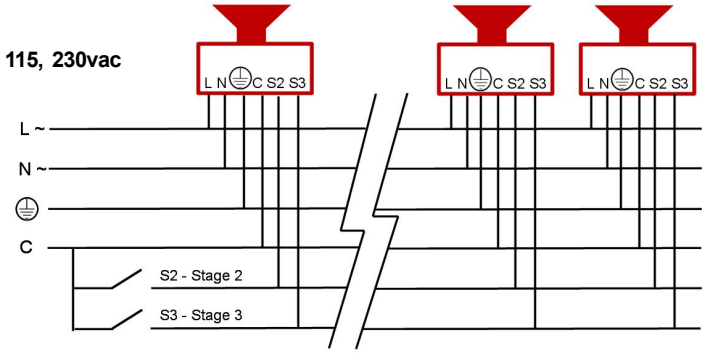


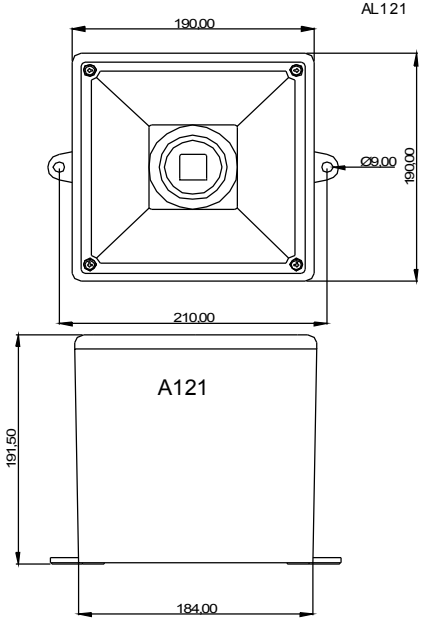
24, 48vdc





115, 230vac





Voltage :	24vdc	48vdc	115vac 50/60Hz	230vac 50/60Hz	24vac 50/60Hz
Voltage range :	10-30vdc	35-60vdc	+/-10%	+/-10%	+/-10%
Current mA :	950mA	600mA	240mA	120mA	1000mA

- Volume Control
- Réglage du volume
- Steuerung der Lautstärke
- Controllo volume
- Controlo do Volume
- Control Volumen
- Volumen kontrol
- Volumeregeling
- Volumkontroll
- Volym kontroll

- Tone Selection
- Sélection de la tonalité
- Tonwahl
- Selezione tono
- Seleção de tons
- Selección Tono
- Valg af tone
- Toonselectie
- Velge tone
- Tonval

A121 24vdc (18-30vdc) units are CPD Compliant.

EN54-3 Type B IP55

NOTE - To be EN54-3 compliant the volume control must be set as shown.

Stage 1 tone	Frequency Description
Tone 2	800/1000Hz @ 0.25 sec Alternating
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.
Tone 15	800Hz Continuous
Tone 16	660Hz 150ms ON 150ms OFF
Tone 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001

The tones listed have been tested to EN54-3 and are compliant with the Cronstruction Product Directive 89/106/EEC.

EN54-3 test data: document D3573

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Stage 1	Frequency Description	A121 dB @ 1m	Switch 1 2 3 4 5 6	Stage 2 (S2)	Stage 3 (S3)
Tone 1	340 Hz Continuous	113dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 2	Tone 5
Tone 2	800/1000Hz @ 0.25 sec Alternating	121dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 17	Tone 5
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	121dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 2	Tone 5
Tone 4	800/1000Hz @ 1Hz Sweeping	121dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 6	Tone 5
Tone 5	2400Hz Continuous	125dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 3	Tone 20
Tone 6	2400/2900Hz @ 7Hz Sweeping	123dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 7	Tone 5
Tone 7	2400/2900Hz @ 1Hz Sweeping	125dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 10	Tone 5
Tone 8	500/1200/500Hz @ 0.3Hz Sweeping	121dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 2	Tone 5
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	121dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 15	Tone 2
Tone 10	2400/2900Hz @ 2Hz Alternating	126dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 7	Tone 5
Tone 11	1000Hz @ 1Hz Intermittent	121dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 2	Tone 5
Tone 12	800/1000Hz @ 0.875Hz Alternating	121dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 4	Tone 5
Tone 13	2400Hz @ 1Hz Intermittent	125dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 15	Tone 5
Tone 14	800Hz 0.25sec on, 1 sec off Intermittent	120dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 4	Tone 5
Tone 15	800Hz Continuous	120dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 2	Tone 5
Tone 16	660Hz 150mS on, 150mS off Intermittent	118dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 18	Tone 5
Tone 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001	117dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 2	Tone 27
Tone 18	660Hz 1.8sec on, 1.8sec off Intermittent	118dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 2	Tone 5
Tone 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265	126dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 2	Tone 5
Tone 20	660Hz Continuous	118dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 2	Tone 5
Tone 21	554Hz/440Hz @ 1Hz Alternating	118dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 2	Tone 5
Tone 22	544Hz @ 0.875 sec. Intermittent	118dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 2	Tone 5
Tone 23	800Hz @ 2Hz Intermittent	120dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 6	Tone 5
Tone 24	800/1000Hz @ 50Hz Sweeping	120dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 29	Tone 5
Tone 25	2400/2900Hz @ 50Hz Sweeping	124dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 29	Tone 5
Tone 26	Bell	118dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 2	Tone 15
Tone 27	554Hz Continuous	117dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 26	Tone 5
Tone 28	440Hz Continuous	117dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 2	Tone 5
Tone 29	800/1000Hz @ 7Hz Sweeping	121dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 7	Tone 5
Tone 30	300Hz Continuous	114dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 2	Tone 5
Tone 31	660/1200Hz @ 1Hz Sweeping	121dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 26	Tone 5
Tone 32	Two tone chime.	118dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 26	Tone 15
Tone 33	745Hz @ 1Hz Intermittent	116dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 2	Tone 5
Tone 34	1000 & 2000Hz @ 0.5 sec Alternating - Singapore	121dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 38	Tone 45
Tone 35	420Hz @ 0.625 sec Australian Alert	118dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 36	Tone 5
Tone 36	500-1200Hz 3.75sec /0.25sec. Australian Evac.	121dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 35	Tone 5
Tone 37	1000Hz Continuous - PFEER Toxic Gas	121dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 9	Tone 45
Tone 38	2000Hz Continuous	122dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 34	Tone 45
Tone 39	800Hz 0.25sec on, 1 sec off Intermittent	120dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 23	Tone 17
Tone 40	544Hz (100mS)/440Hz (400mS) - NF S 32-001	121dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 31	Tone 27
Tone 41	Motor Siren - slow rise to 1200 Hz	122dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 2	Tone 5
Tone 42	Motor Siren - slow rise to 800 Hz	121dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 2	Tone 5
Tone 43	1200 Hz Continuous	122dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 2	Tone 5
Tone 44	Motor Siren - slow rise to 2400 Hz	124dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 2	Tone 5
Tone 45	1KHz 1s on, 1s off Intermittent - PFEER Gen. Alarm	121dB(A) @ 1m	■ ■ ■ ■ ■ ■	Tone 38	Tone 34

Tone Selection / switch setting.

- Switch settings are shown in the tone table. Black squares are the switch levers in the ON position.
- Les réglages des commutateurs sont indiqués sur le tableau de tonalités. Les carrés noirs représentent les leviers des commutateurs en position MARCHE (ON).
- Die Schaltereinstellungen sind in der Tabelle der Töne angegeben. Die schwarzen Quadrate kennzeichnen die Ein-Positionen der Schalter.
- Le impostazioni degli interruttori sono mostrate nella tabella dei segnali acustici. I riquadri neri indicano le leve degli interruttori nella posizione ON.
- Los ajustes de interruptor se muestran en la tabla de tonos. Los cuadros negros representan las palancas de los interruptores en la posición ON.
- Os ajustes dos interruptores estão indicados na tabela de sons. Os quadrados pretos indicam que as alavancas dos interruptores estão na posição LIGADA.
- Kontaktindstillingerne fremgår af toneskemaet. Et sort felt betyder, at kontakten er aktiv ("ON").
- De schakelinstellingen staan vermeld in de toontabel. Zwarte vierkanten zijn de schakelaars in de stand AAN.
- Bryterinnstillinger er beskrevet i tonetabellen. De svarte firkantene indikerer bryterposisjonene i PÅ-posisjon.
- Brytarinställningarna visas i signaltabellen. De svarta fyrkanterna är brytarna i ON-läge.

NOTE: Please check factory settings and ensure the correct alarm tone is selected for your country or application.
Pas op: bij ingebruikstelling dient u zich ervan te overtuigen dat de unit op de juiste toon is ingesteld.

>121dB(A)@1m.
126dB(A) Max.

ATTENTION

- **Disconnect from power source to prevent electrical shock before installing and servicing**
- **Couper l'alimentation pour empêcher tout choc électrique avant d'effectuer des travaux d'installation et d'entretien.**
- **Vor der Installation und Wartung von der Spannungsquelle abnehmen, um elektrische Schläge zu vermeiden.**
- **Prima dell'installazione e della manutenzione spegnere l'alimentazione elettrica per evitare scosse elettriche.**
- **Desconecte la alimentación para evitar descargas eléctricas antes de la instalación y mantenimiento**
- **Antes de instalar ou de fazer a manutenção desligue sempre da alimentação eléctrica para evitar choques eléctricos.**
- **Strømmen skal afbrydes ved installering og eftersyn for at undgå elektrisk stød.**
- **Loskoppelen van de elektrische voeding om elektrische schok vóór installatie en onderhoud te voorkomen.**
- **Før montering eller vedlikehold, må spenningen koples fra for å unngå strømstøt.**
- **Bryt strömmen innan installation och underhåll för att förhindra elektriska stötar stötar.**

ISN3501-B