



SESLIM THE COMPLETE AND MOST EASY TO OPERATE LIMIT SWITCH

- Two transmitter signals, one limit each or one signal two limits.
- Detection above or below adjusted limit setpoint.
- Switch delay 0,5 or 20 seconds.
- Alarm or limit function (break or make).
- 4-20mA, 0-20mA, 0-1mA or 0-1V input signal.
- 4-20mA, 0-20mA, or 0-1mA output signal.
- Easy to set and check. Limit setpoint connected to output signal by built-in or external pushbutton.

Mailing address

S.E.S. Scandinavian Electronics AB
P.O. Box 5
SE-149 21 NYNÄSHAMN
Sweden

Office/Goods address

S.E.S. Scandinavian Electronics AB
Konsul Johnsons väg 2
SE-149 45 NYNÄSHAMN
Sweden

Telephone

+46 8 520 175 75

E-mail

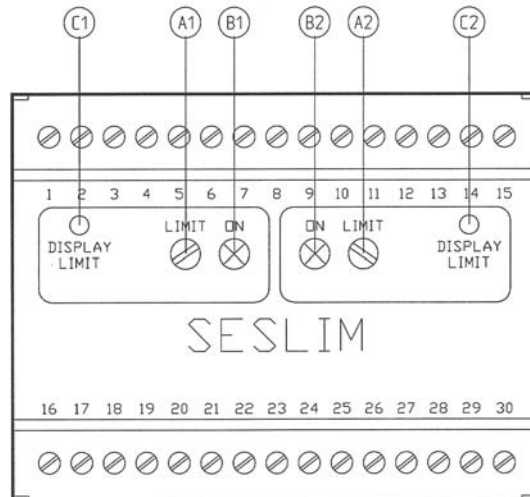
ses@sescon.com

Telefax

+46 8 520 168 64

Web site

<http://www.sescon.com/>



FUNCTION DESCRIPTION

SESLIM has two separate channels, each with its own limit setpoint adjustable from 0-100% of the input signal. It can be operated either from two independent transmitters - one limit each - or from only one transmitter - two independent limits.

The transmitter signals can be 4-20mA, 0-20mA, 0-1 mA or 0-1 V.

A current instrument or display unit can be connected displaying the transmitter signal under normal conditions. Three output ranges are available: 4-20mA, 0-20mA or 0-1mA.

When pressing the built-in DISPLAY LIMIT pushbutton the output device will instead display the limit setpoint for easy setting and checking. As soon as the pushbutton is released the output device will display the transmitter signal again. An external remote DISPLAY LIMIT pushbutton may also be connected.

The switch can be selected to operate below or above its setpoint with a time delay of 0,5 or 20 sec. The output contacts function can be "alarm" or "limit" (break or make).

A green light emitting diode ON will be lit under normal conditions when operating as an alarm switch or when the limit setpoint is passed when operating as a limit switch.

LIMIT SETTING

Adjusting the alarm/limit setpoint is very easy:

1. Press the DISPLAY LIMIT pushbutton.
2. Turn the LIMIT setpoint knob until you read your wanted alarm/limit value at the output current instrument or display unit.

The adjusted limit can be checked at any time by pressing the DISPLAY LIMIT pushbutton. The alarm/limit switch output contacts will not be affected by this test.

TECHNICAL DATA

DIMENSION: 100x75x110mm (WxHxD).

MOUNTING: DIN C-rail or screwed directly to plate.

WEIGHT: 550g

POWER: 220 VAC \pm 15% 4VA 45-66 HZ. 315mA internal fuse.

AMBIENT TEMP: -10°C to + 55°C

CONTACTS: Max. 220 VAC 1A 200VA
Max. 300 VDC 1A 200W

OUTPUT SIGNAL: 0-1 mA $R_L < 6k\Omega$
0-20 mA $R_L < 300\Omega$
4-20 mA $R_L < 300\Omega$

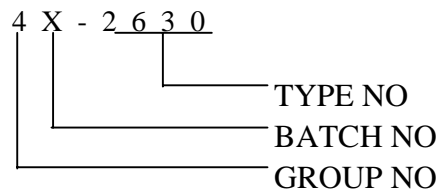
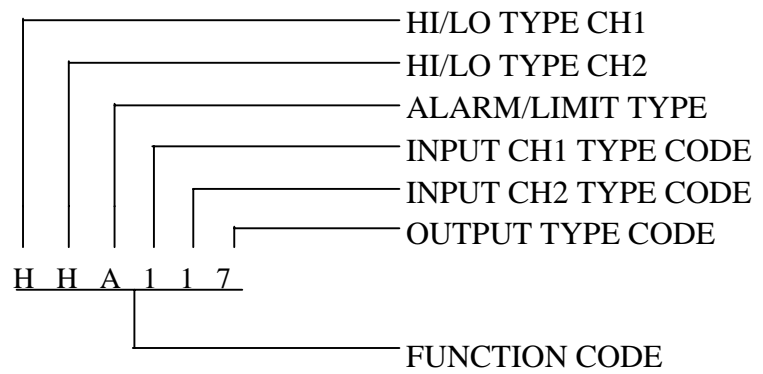
INPUT SIGNAL: 0-1 mA $R_i 1k\Omega$
0-20 mA $R_i 50\Omega$
4-20 mA $R_i 50\Omega$
0-1 V $R_i 800k\Omega$

ALARM DELAY: 0,5 sec or 20 sec.

LIMIT ADJ. RANGE: 0-100% of input signal.

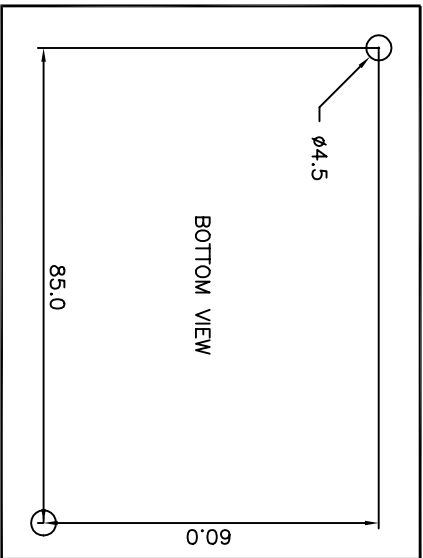
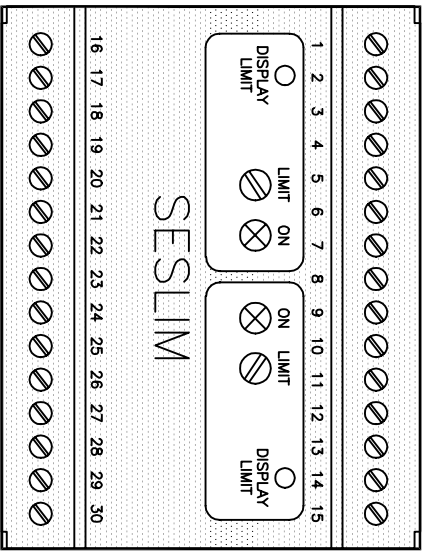
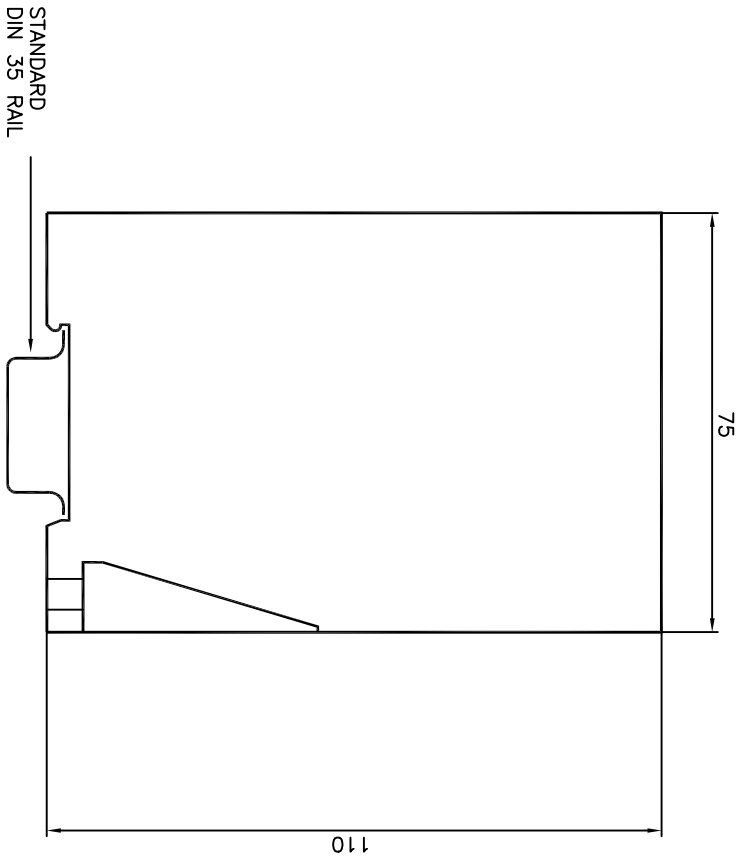
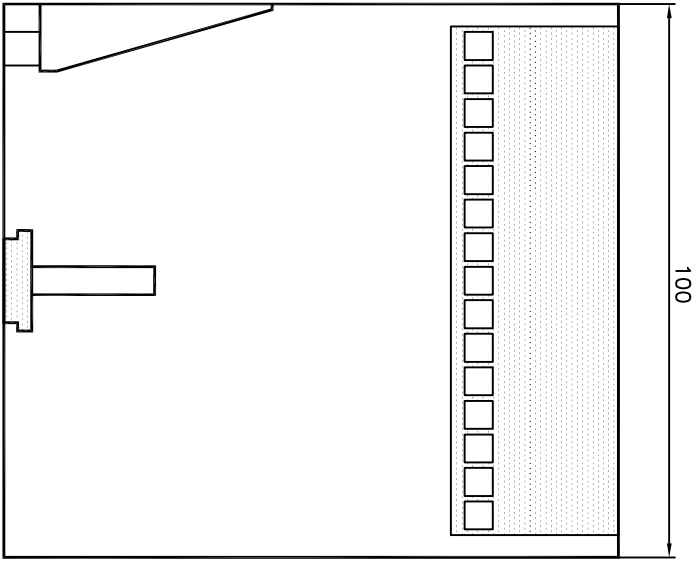
ORDERING INFORMATION

ORDER NR	FUNCTION CODE	INPUT SIGNAL		OUTPUT SIGNAL MA	ALARM FUNCTION	DELAY SEC.	NO. OF CHANNELS
		CH 1 mA	CH 2 mA				
2630-4X	HHA 117D	4 - 20	4 - 20	0 - 1	HI ALARM	20	2
2631-4X	LLA 117D	4 - 20	4 - 20	0 - 1	LO ALARM	20	2
2678-4X	HHL 117	4 - 20	4 - 20	0 - 1	HI LIMIT	0,5	2
2679-4X	LLL 117	4 - 20	4 - 20	0 - 1	LO LIMIT	0,5	2
2680-4X	HLL 107	4 - 20		0 - 1	HI/LO LIMIT	0,5	1
2681-4X	LLA 702	0 - 1		0 - 20	LO/LO ALARM	0,5	1
2682-4X	HLA 107	4 - 20		0 - 1	HI/LO ALARM	0,5	1
2683-4X	HLA 117	4 - 20	4 - 20	0 - 1	HI/LO ALARM	0,5	2
2684-4X	HLL 117	4 - 20	4 - 20	0 - 1	HI/LO LIMIT	0,5	2
2685-4X	HHA 111	4 - 20	4 - 20	4 - 20	HI ALARM	0,5	2
3953-4X	HHA101	4 - 20		4 - 20	HI/HI ALARM	0,5	1
4479-4X	HHA117	4 - 20	4 - 20	0 - 1	HI/HI ALARM	0,5	2
3076-4X	HHL771	0 - 1	0 - 1	4 - 20	HI/HI LIMIT	0,5	2
3078-4X	HHL881	0 - 1V	0 - 1V	4 - 20	HI/HI LIMIT	0,5	2
2701-4X	HLL707	0 - 1		0 - 1	HI/LO LIMIT	0,5	1
3197-4X	LAHL107	4 - 20		0 - 1	LO ALARM HI LIMIT	0,5	1
4076-4X	LALL107	4 - 20		0 - 1	LO ALARM LO LIMIT	0,5	1
3862-4X	LHA117	4 - 20	4 - 20	0 - 1	LO/HI ALARM	0,5	2
3496-4X	LHL117	4 - 20	4 - 20	0 - 1	LO/HI LIMIT	0,5	2
3871-4X	LLA1172	4 - 20	4 - 20	0 - 1/ 0 - 20	LO/LO ALARM	0,5	2
4305-4X	LLA117	4 - 20	4 - 20	0 - 1	LO/LO ALARM	0,5	2



Other types e.g. voltage inputs are available.

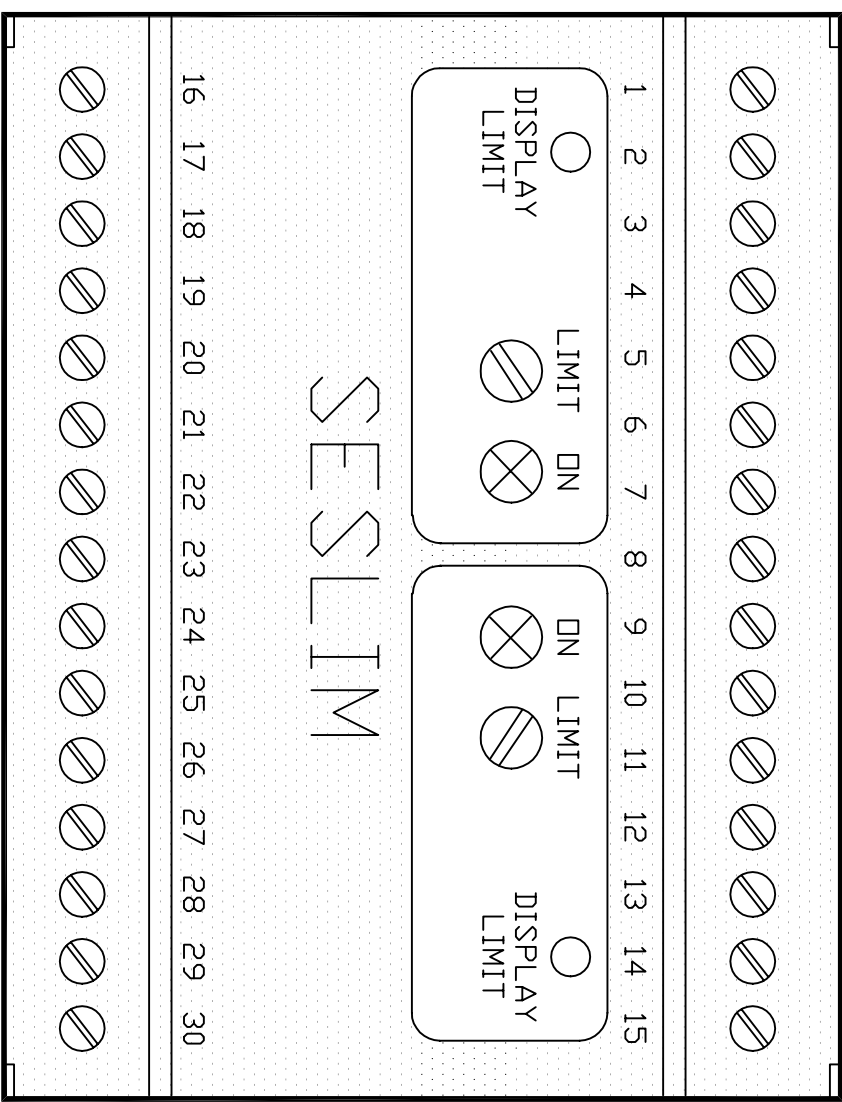
Please specify all inputs and output in your order.



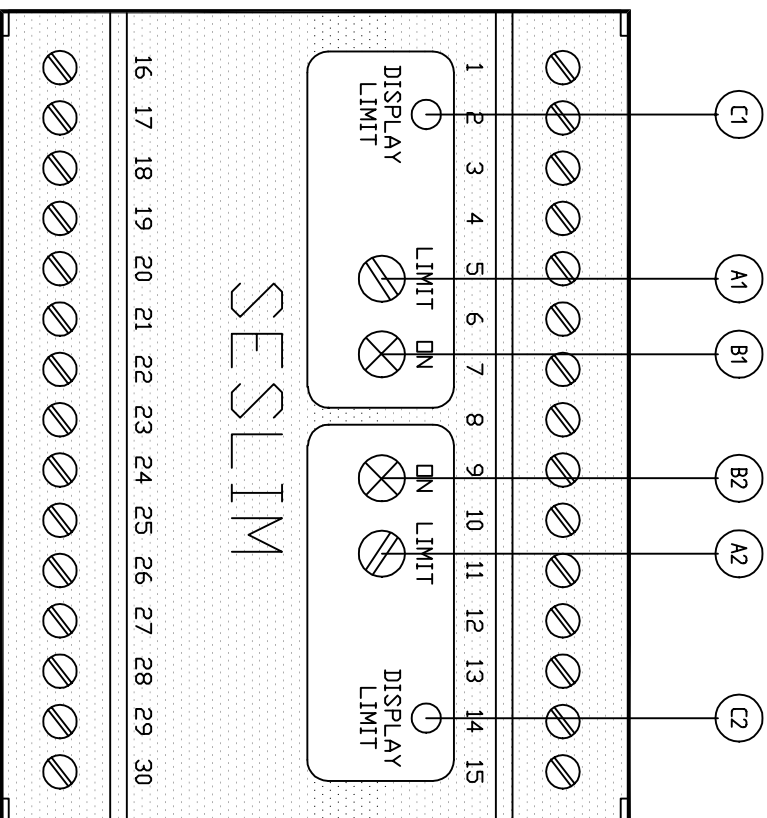
Ändringar/Remarks

Senaste Ändring/ Last revision		Ählaggning/Part	
Best nr/Order No.		SESLIM	
DIMENSION AND LAYOUT			
Konstr./Design	Granskt./Check	Godk./Approv	Ersätter./Replaces
Datum./Date	1993-03-18	Fi nr./File No.	31267501.DWG
Littera	Antal./Tot sh	Förts./Next sh	
Ritning nr./Drawing No.		Blad./Sheet	
31-2675		1	
Skal/Size		A3	

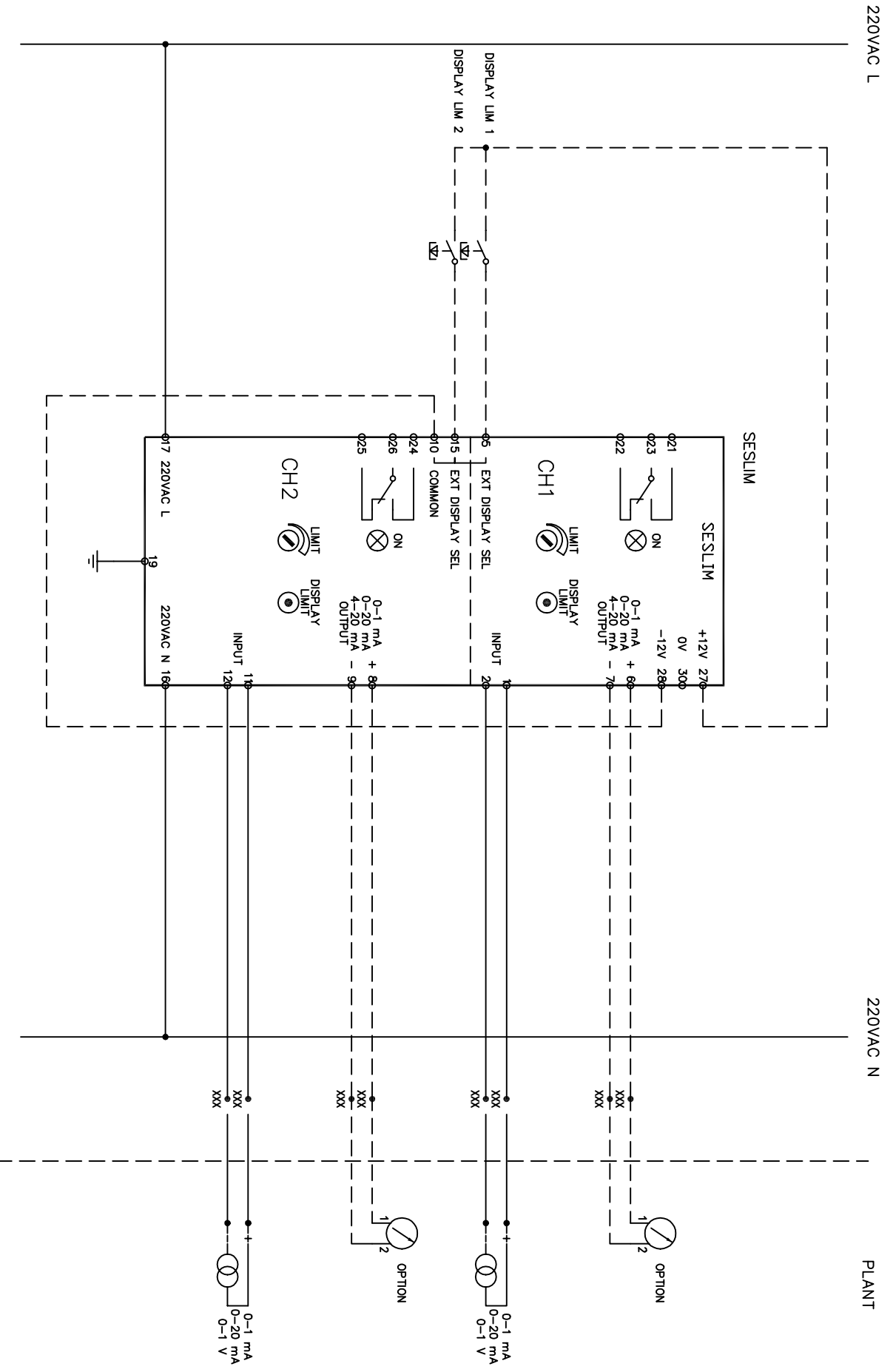
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Anmärkning/Remarks		Senaste Ändring/ Last revision		Anläggning/Plant		Konstr./Design		Datum/Date		Jmt rth/See drawing		Forts/Next sh	
		Best nr/Order No.		SESLIM		Granak/Check		1993-03-18		Littera		3	
				LAYOUT		Godek/Approv		31267502.DWG		Antb/Tot sh		2	
				S.E.S. Scandinavian Electronics AB		Ersätter/Replaces				Ritning nr/Drawing No.		31-2675	
										Stor/ Size		A3	



Anmärkning/Remarks									
Senaste Ändring/ Last revision									
Best nr/Order No.									
Anläggning/Plant SESLIM									
Designation LAYOUT									
Konstr./Design		Gransk./Check		Godk./Approv		Ersätter/Replaces		Jmt rthn/See drawing	
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								Antb./Tot sh	
								Blad/Sheet	
								31-2675	
								Stor/ Size	
								A3	



220VAC L

220VAC N

PLANT

Anmärkingar/Remarks

Sista Ändring/
 Last revision

Anläggning/Plant
 SESLIM

Designation
 EXTERNAL WIRING

0-1 mA, 0-20 mA AND 0-1 V INPUT

Konstr./Design

Gransk./Check

Godk./Approv

Best nr./Order No.

Ändring nr./Drawing No.

Utgivningsdatum/Date

1993-03-18

Fi nr./File No.

31267601.DWG

31-2676

Blad/Sheet

1

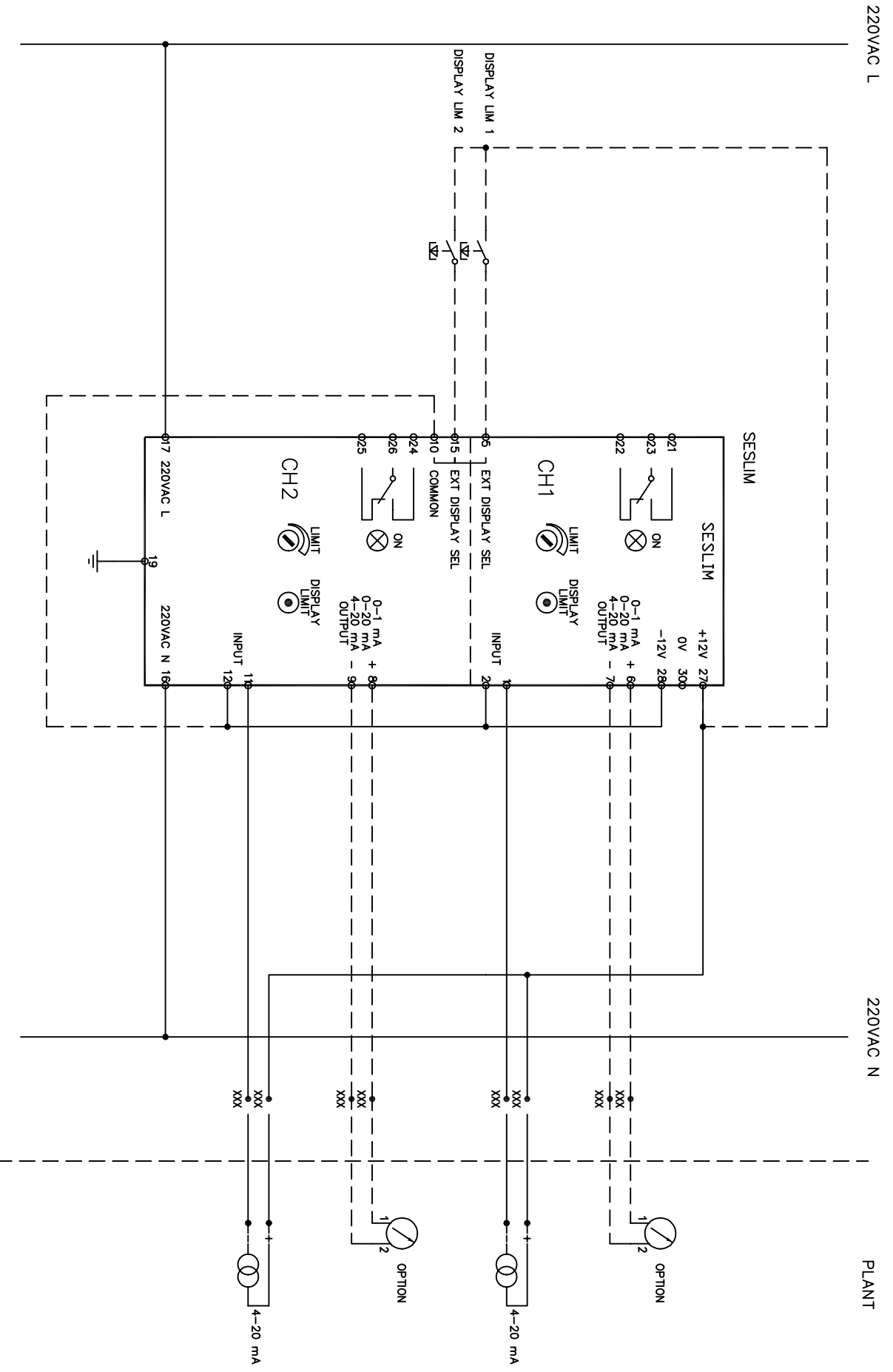
Blad/Sheet

2

Blad/Sheet

1

A3



220VAC L

220VAC N

PLANT

Anmärkingar/Remarks

Sista Ändring/
 Last revision

1994-05-02

Best nr/Order No.

Anläggning/Plant

SESLIM

Designation

EXTERNAL WIRING

4-20 mA 2-WIRE INPUT

Konstr./Design

1993-03-18

Gransk./Check

31267602.DWG

Godk./Approv

XXX

Ersätter/Replaces

XXX

Jmt rthn/See drawing

Littera

Antal/Total sh

31-2676

Forts/Next sh

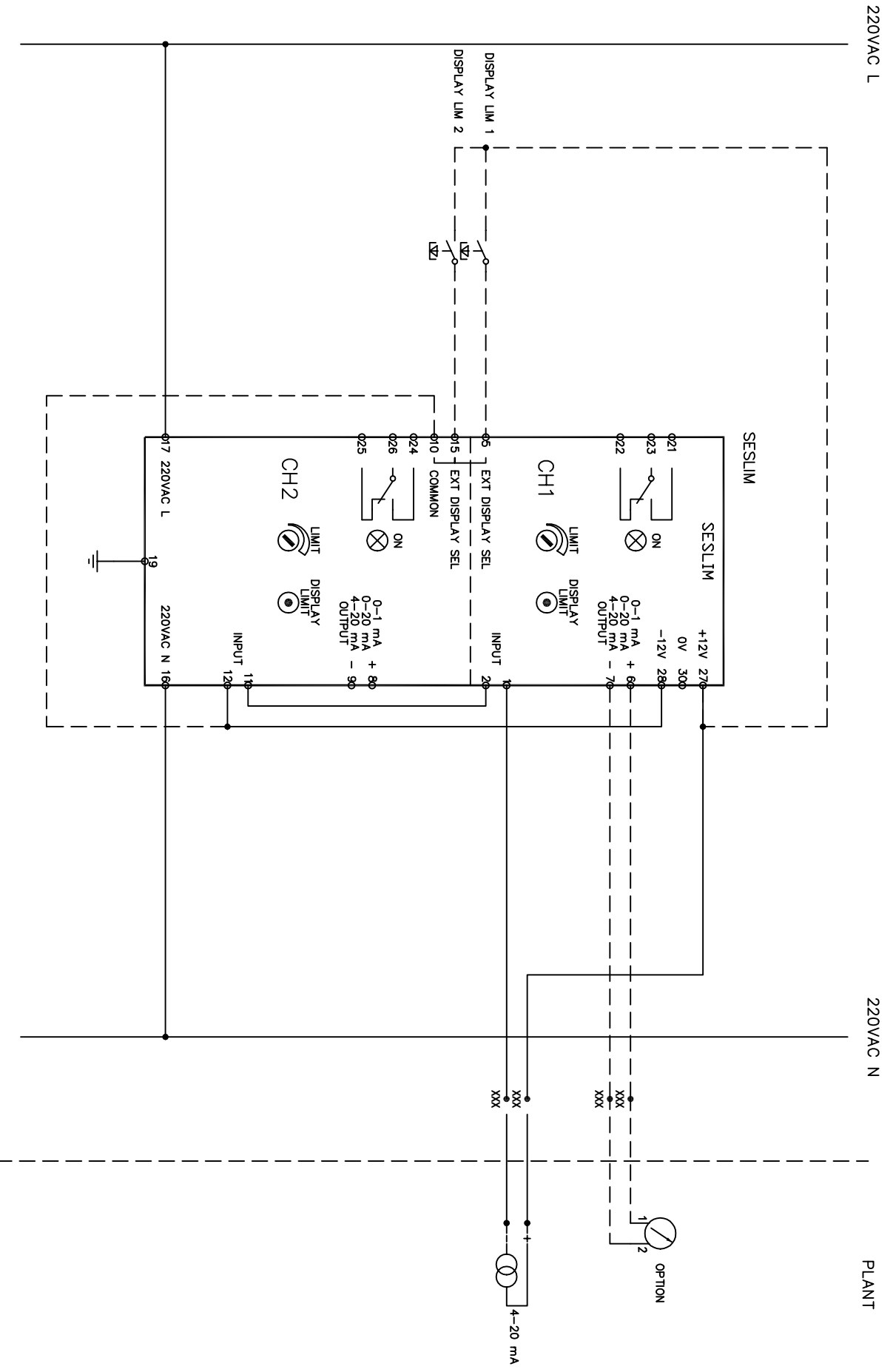
Bild/Sheet

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Stor/Size

A3

**S.E.S. Scandinavian
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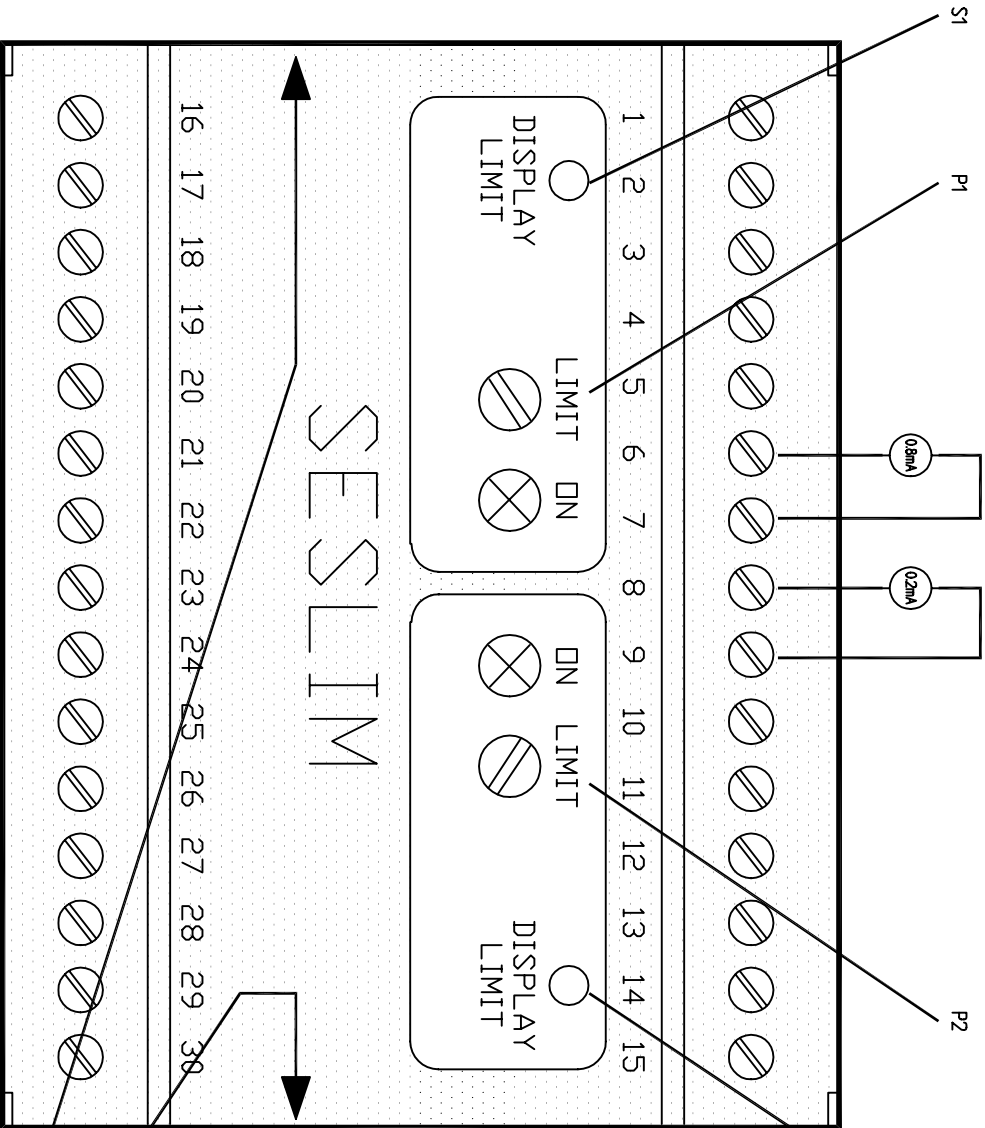
220VAC L

220VAC N

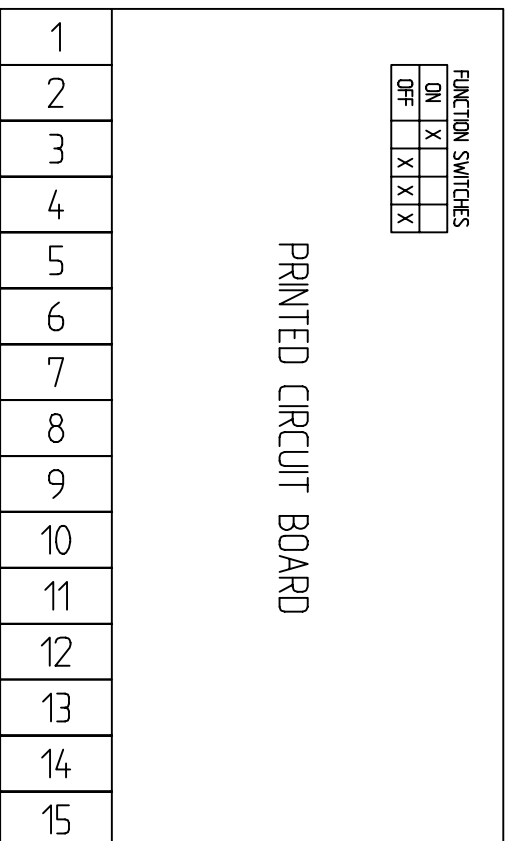
PLANT

Anmärkning/Remarks

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Best nr/Order No.		EXTERNAL WIRING		Blad/Sheet		3	
1994-05-02		4-20 mA 2-WIRE INPUT		Ritning nr/Drawing No.		31-2676	
S.E.S. Scandinavian Electronics AB		Datum/Date		Konstr/Design		Gransk/Check	
1993-03-18		1993-03-18		Godk/Approv		Ersätter/Replaces	
31267603.DWG		Fi nr/File No.		31267603.DWG		Stor/Size	
A3							



Slave boiler start.
 Measure between terminal 6-7 with a 0-1mA instrument.
 Press display limit switch S1 on the panel and adjust with trimmer P1 to 0.800mA.
 Slave boiler stop.
 Measure between terminal 8-9 with a 0-1mA instrument.
 Press display limit switch S2 on the panel and adjust with trimmer P2 to 0.200mA.



Bend out the box sides carefully and slide out the PC-board.
 Check that the switches are set correctly.

Anmärkning/Remarks

These values are based on the performance
 curve of the boilers, do not change.

Senaste Ändring/
 Last revision

Best nr/Order No.

Ahlaggning/Plant

BOILER CONTROL SYSTEM

Benämning/Designation

SESLIM

SLAVE BOILER START/STOP

Konstr./Design

Gransk./Check

Gesk./Approv

Ersätter/Replaces

Datum/Date

1998-06-08

Fi nr/File No.

37613101

Jmf rthn/See drawing

Littera

Antal/Tot sh

Bild/Sheet

Ritning nr/Drawing No.

3761-31

Stor/
 Size

A3

**S.E.S. Scandinavian
 Electronics AB**