

CONTROL CENTRE

FOR CENTRALISED LUBRICATION SYSTEM WITH PROGRESSIVE FEEDER AND SPRAY NOZZLES

CCL *Alpha* Spray

Model No. 907044

USER'S MANUAL



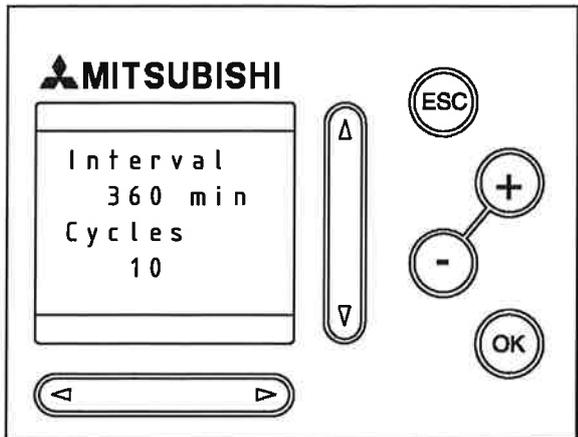
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3. HANDLING

SETTINGS

The time between two starts of the lubrication pump is called the interval and is adjustable. The lubrication system must comprise a progressive feeder with cycle switch. The number of cycles at each pump start can be set. The pump is being stopped after the number of cycles set have been performed.



U-link the terminals 111 and 112 to enter the setting mode.

Place the cursor at the setting to be changed with the up/down arrow.

Change setting by pressing + or -.

Confirm the new setting by pressing OK.

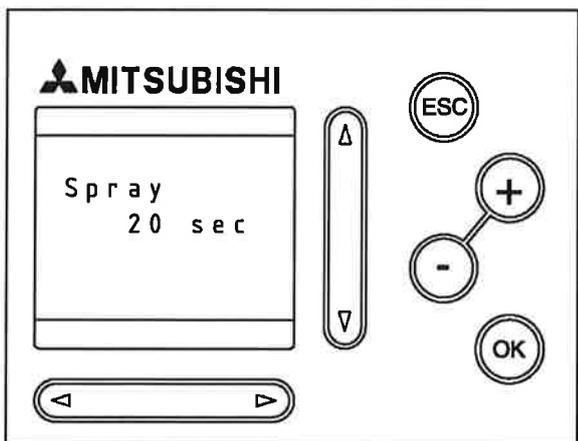
Remove the u-link between terminal 111 and 112.

Example:

A bearing requires 1 cm³ of lubricant every 6th hour. The bearing is connected to one outlet of the progressive feeder which feeds 0.1 cm³ per outlet and cycle. The required number of cycles is accordingly 10 every 6th hour = 360 minutes ("Interval".)

Setting the spray time:

The spray time is the extra time after that the pump has stopped when the spray valve is still open. That time is used to avoid after drip from the nozzle.



U-link the terminals 111 and 112 to enter the setting mode.

Change to the Spray setting with the right arrow.

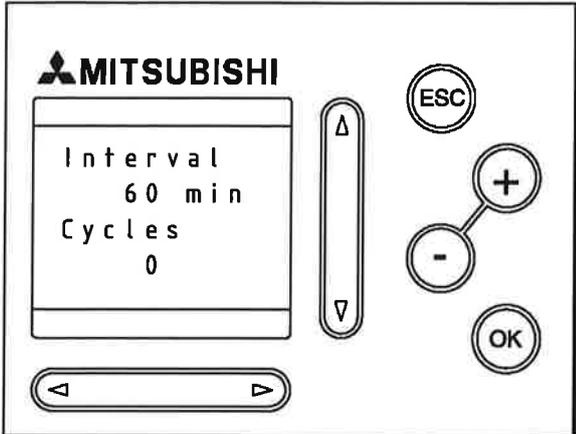
Change setting by pressing + or -.

Confirm the new setting by pressing OK.

Remove the u-link between terminal 111 and 112.

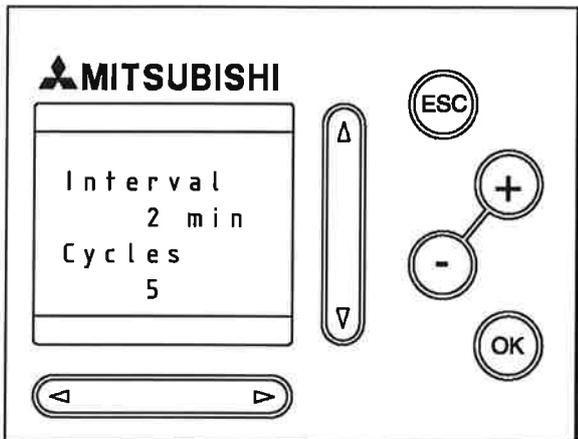
NORMAL OPERATION

In normal operation mode the display shows the time elapsed of the interval time since the last start.



In this example 60 minutes has elapsed of the interval time.

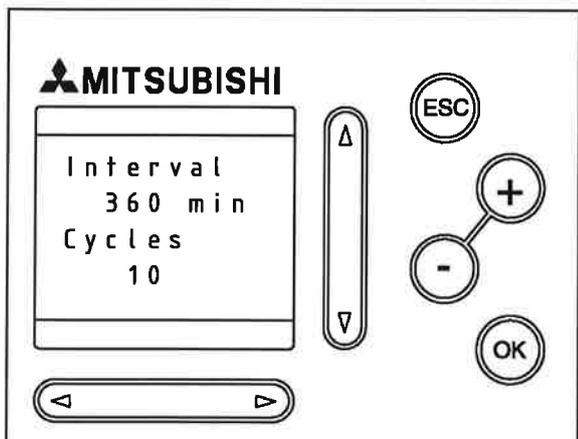
During the pumping phase the display shows the number of cycles performed and the pumping time from the start.



In this example the pump has been operating 2 minutes and 5 cycles have been performed.

EXTRA LUBRICATION

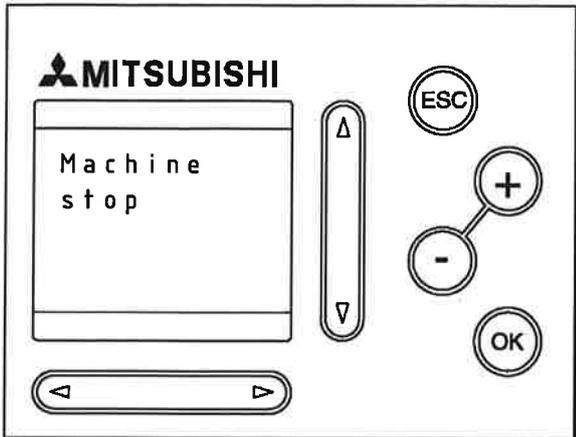
An extra lubrication may be activated at any time.



Increase the interval by pressing + until it equals the entered time and press OK.

MACHINE INTERLOCKING.

The control centre can be controlled by the lubricated machine, so called, machine interlocking.



When the contact for machine interlocking is being closed (the lubricated machine is stopped) the lubrication phase in progress, if any, is stopped as well as the time counting. At restart of the machine the lubrication phase and the time counting resumes.

OPERATING INDICATOR

The operating indication output (24V DC) has the same functions as the lamp in the front of the control centre.

No voltage:

Control centre is switched off or machine-interlocked.

Alternating voltage 0 - 24V:

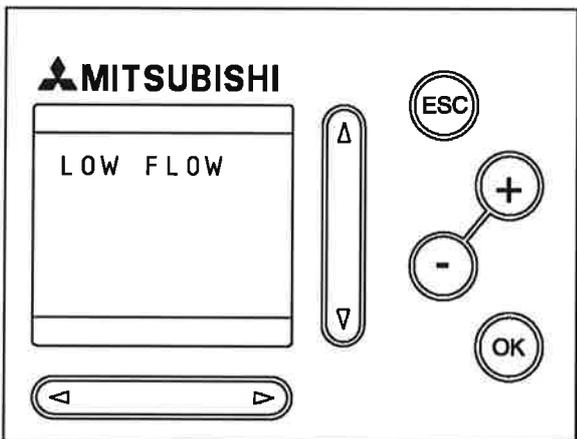
Alarm

Voltage on

Control centre is operating.

ALARMS

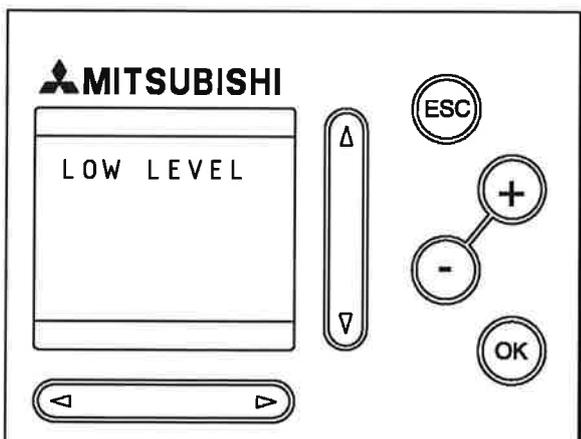
If the entered number of cycles have not been performed at the end of the interval time, a low flow alarm will be activated.



The system stops lubricating and the alarm contact closes.

To acknowledge the alarm, press ESC - a new lubrication phase is then started.

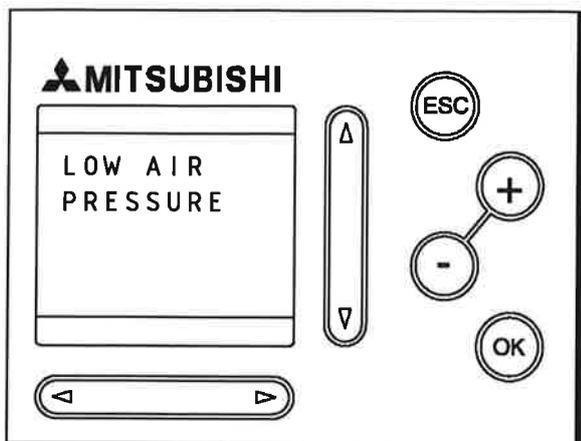
If the alarm level switch in the lubricant reservoir is triggered, a low level alarm is activated.



The system stops lubricating and the alarm contact closes.

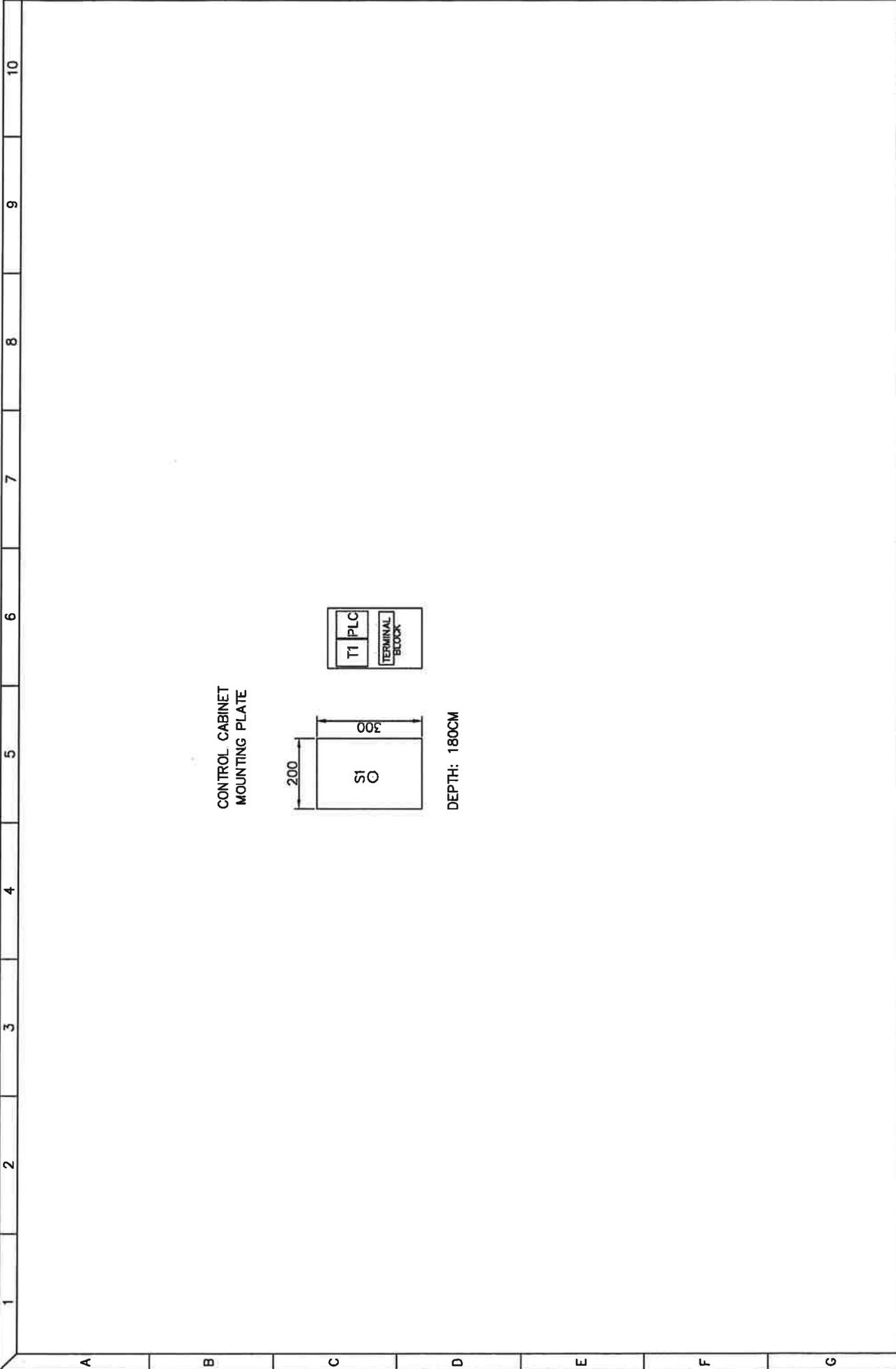
The alarm is deactivated when the reservoir has been replenished.

If the air pressure switch is closed (too low pressure), a low air pressure alarm is activated.

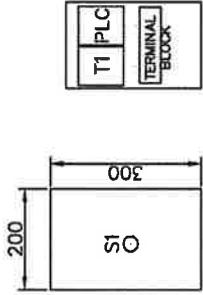


The system stops lubricating and the alarm contact closes.

The alarm is deactivated when the air pressure is normal again.

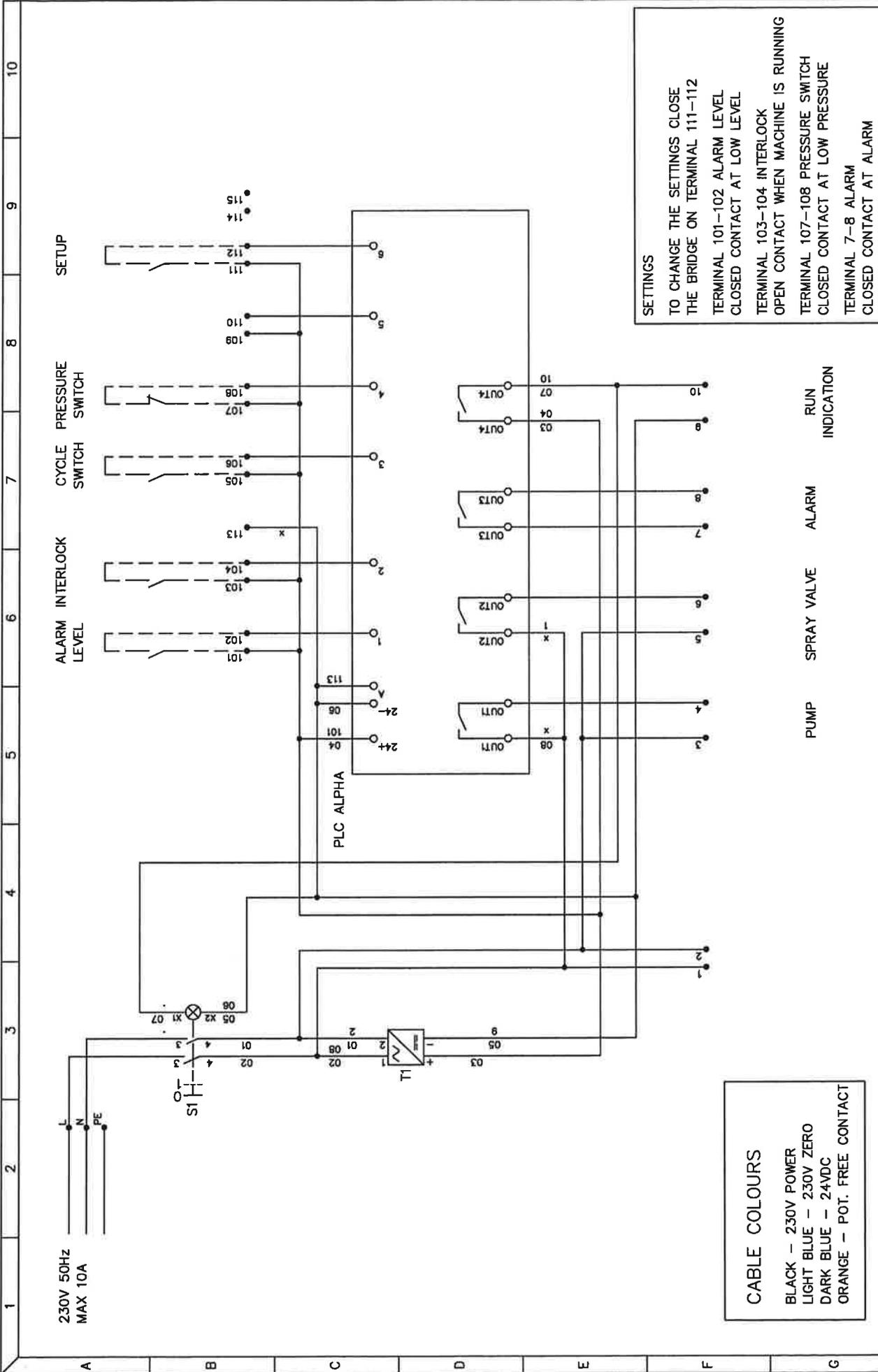


CONTROL CABINET
MOUNTING PLATE



DEPTH: 180CM

CCL ALPHA CONTROL CABINET 907044 LAYOUT	Proj.no. 907044	Sheet 101	Cont. 201
	Drawing no 907044		
	Customer referens 907044		
 +46(0)20-812 00 www.novael.se			
Filename: 907044 Designed by: KS Drawn by: KS Date: 20160523			



CABLE COLOURS
 BLACK - 230V POWER
 LIGHT BLUE - 230V ZERO
 DARK BLUE - 24VDC
 ORANGE - POT. FREE CONTACT

SETTINGS
 TO CHANGE THE SETTINGS CLOSE
 THE BRIDGE ON TERMINAL 111-112
 TERMINAL 101-102 ALARM LEVEL
 CLOSED CONTACT AT LOW LEVEL
 TERMINAL 103-104 INTERLOCK
 OPEN CONTACT WHEN MACHINE IS RUNNING
 TERMINAL 107-108 PRESSURE SWITCH
 CLOSED CONTACT AT LOW PRESSURE
 TERMINAL 7-8 ALARM
 CLOSED CONTACT AT ALARM

1	2	3	4	5	6	7	8	9	10
A	B	C	D	E	F	G			

907044-Rev E.dwg 2016-05-23 13:30

Filename: 907044	+46(0)20-812 00	CCL ALPHA	Proj.no. 907044	Sheet 301	Cont. -
Designed by: KS	www.novael.se	CONTROL CABINET	Drawing no. 907044		
Drawn by: KS		907044	Customer referens 907044		
Date: 20160523		CIRCUIT DIAGRAM			E



Novael
production ab

MANUFACTURER'S DECLARATION

CCL Alpha

During the manufacturing of the terminal equipment CE labelled materials have been used and assembled according to the supplier's assembly instructions.

Otherwise the working methods and materials are according to the given list on the required standard.

Date

2016-05-13

Signature

Michael Kuisma

Michael Kuisma

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DECLARATION OF CONFORMITY
according to the EMC -Directive 89/336/EEC

Object name

CCL Alpha

Type of equipment

Terminal equipment

Brand name or trade mark

Novael production AB

Type designation etc.

Manufacturer's name, address, telephone no:

Novael Production AB, Örsätter Industrigallerian, S-597 91 Åtvidaberg, Tel: +46 (0)120-812 00

The following harmonised standards have been applied:

And/or

The following technical report issued by the stated competent body is the basis of the declaration:

1. SS-EN 60 439-1

2.

Additional information.

By signing this document, the undersigned declares as manufacturer, or the manufacturer's authorized representative established within the EEA, that the equipment in question complies with the protection requirements of the above directive.

Manufacturer

or

Manufacturer's authorized representative

Date

2016-05-13

Signature

Michael Kuisma
Michael Kuisma

Position

Technical incharge

DECLARATION OF CONFORMITY
according to the EC Low Voltage Directive 73/23/EEC

Object name

CCL Alpha

Type of equipment

Terminal equipment

Brand name or trade mark

Novael Production AB

Type designation etc.

Control cabinet

Manufacturer's name, address, telephone no:

Novael Production AB, Örsätter Industrigallerian, S-597 91 Åtvidaberg, Tel: +46 (0)120-812 00

Manufacturer's authorized representative established within EEA; Name, address, telephone:

Novael Production AB, Örsätter Industrigallerian, S-597 91 Åtvidaberg, Tel: +46 (0)120-812 00

The following harmonised standards or technical specifications (designations) which comply with good engineering practice in safety matters in force within the EEA have been used in the design:

1. SS-EN 60 439-1

2.

1. The equipment confirms completely with the above stated harmonised standards or technical specification.

OR

2. The equipment confirms only partially with the above stated harmonised standards or technical specifications but complies with good engineering practice in safety matters in force within the EEA.

Additional information.

By signing this document, the undersigned declares as manufacturer, or the manufacturer's authorized representative established within the EEA, that the equipment in question complies with the safety requirements stated above.

Manufacturer

or

Manufacturer's authorized representative

Date

Signature

Position

2016-05-13


Michael Kuisma

Technical incharge

Försäkran om överensstämmelse



Novael
Production AB

Datum: 2016-04-18

Lev Datum: 2016-05-13
Artikel nr: P907044
Projekt nr: 0
Antal: 1
Order: 0
Benämning: CCL Alpha Engelsk

Kund: Assalub
Kundkontakt: Anna Nätell
Handläggare: Kent Stenshaga

Härmed försäkras att ovanstående produkt är tillverkad i överensstämmelse med följande EU-direktiv och under dessa listade europeiska standarder:
Lågspänningsdirektivet (LVD) 2006/95/EG
EMC-direktivet 2004/108/EG

Produkten är i tillämpliga delar tillverkad i överensstämmelse med följande standarder:
SS-EN 60439-serien Kopplingsutrustningar för högst 1000 A AC
SS-EN 60204 Maskinsäkerhet-Maskiners elutrustning

Novael
Production AB

Datum: 2016 05 13

Besfattning: Montör

Underskrift: S-j Thell