

# CONTROL CENTRE

## FOR CENTRALISED LUBRICATION SYSTEM WITH PROGRESSIVE FEEDER

### CCL *Alpha*

Model No. 906716-E

## USER'S MANUAL



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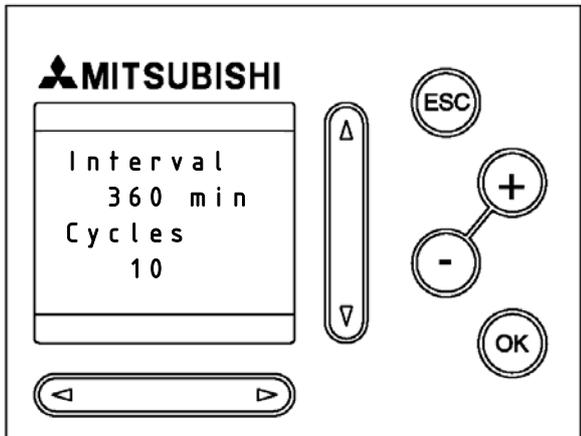
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### 3. HANDLING

#### 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.

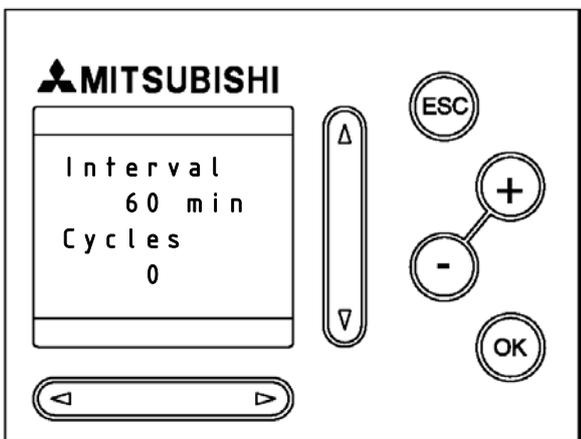
Remove the u-link between terminal 111 and 112.

Example:

A bearing requires 1 cm<sup>3</sup> of lubricant every 6th hour. The bearing is connected to one outlet of the progressive feeder which feeds 0.1 cm<sup>3</sup> per outlet and cycle. The required number of cycles is accordingly 10 every 6th hour = 360 minutes ("Interval".)

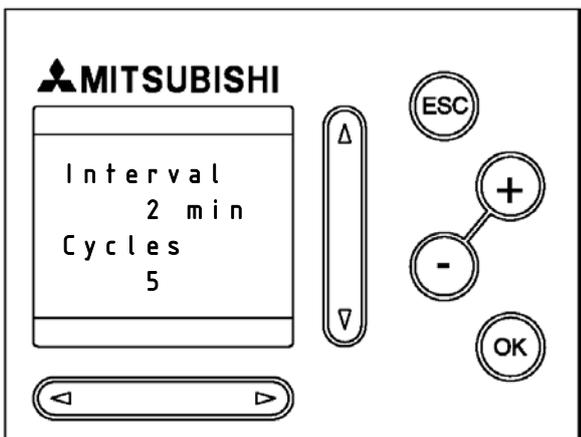
#### NORMAL OPERATION

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.

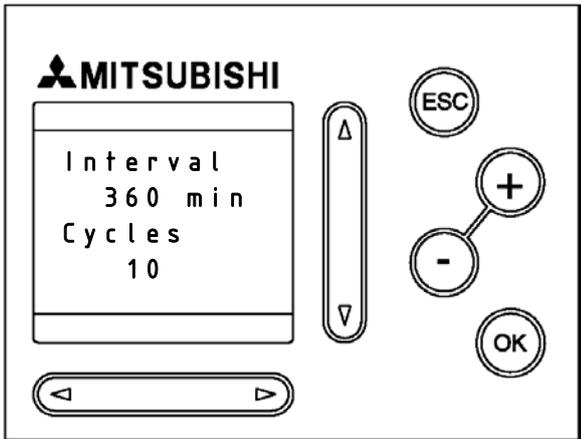
During the pumping phase the display shows the number of cycles performed and the pumping time from the start.



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.



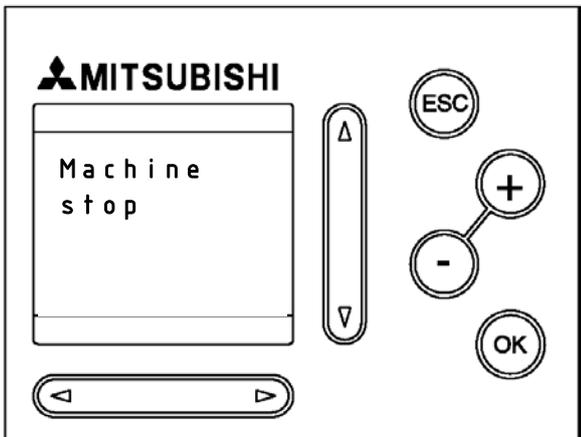
Increase the interval by pressing + until it equals the entered time and press OK.

## AUTOMATIC REPLENISHMENT.

The level switches of the lubricant reservoir and the switch or solenoid valve of the transfer pump can be connected to the control centre. This will then monitor automatic replenishment of the reservoir from the storage tank or drum. The transfer pump starts when the low level switch closes and stops when the high level switch closes.

## 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:

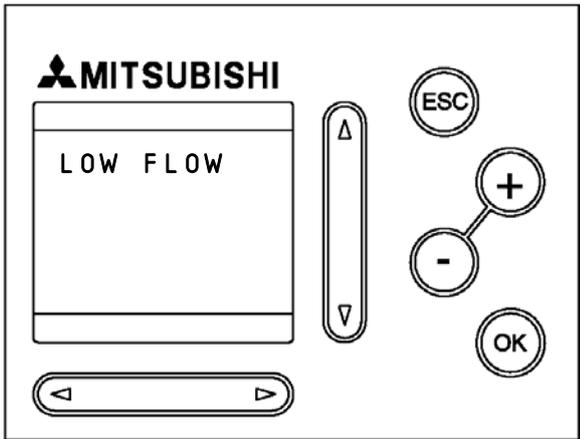
Alarm

Voltage on

Control centre is operating.

## ALARMS

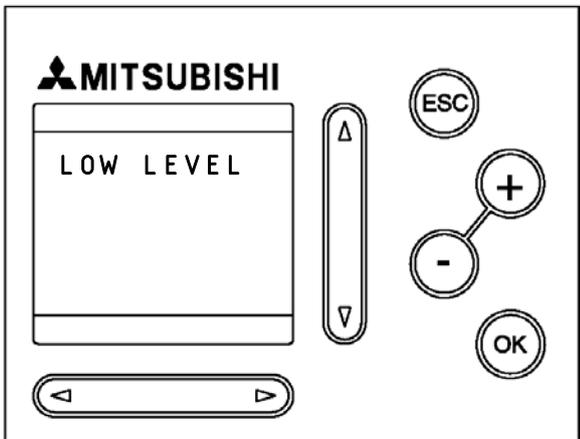
If the entered number of cycles have not been performed at the end of the interval time, a low flow alarm will be activated.



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.



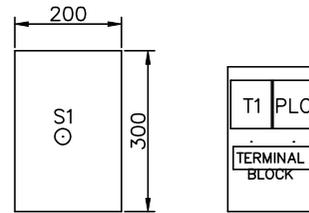
The system stops lubricating and the alarm contact closes.

The alarm is deactivated when the reservoir has been replenished.

1 2 3 4 5 6 7 8 9 10

A  
B  
C  
D  
E  
F  
G

CONTROL. CABINET  
MOUNTING PLATE



DEPTH: 180CM

Filename: 906716

Designed by: KS

Drawn by: KS

Date: 20111104

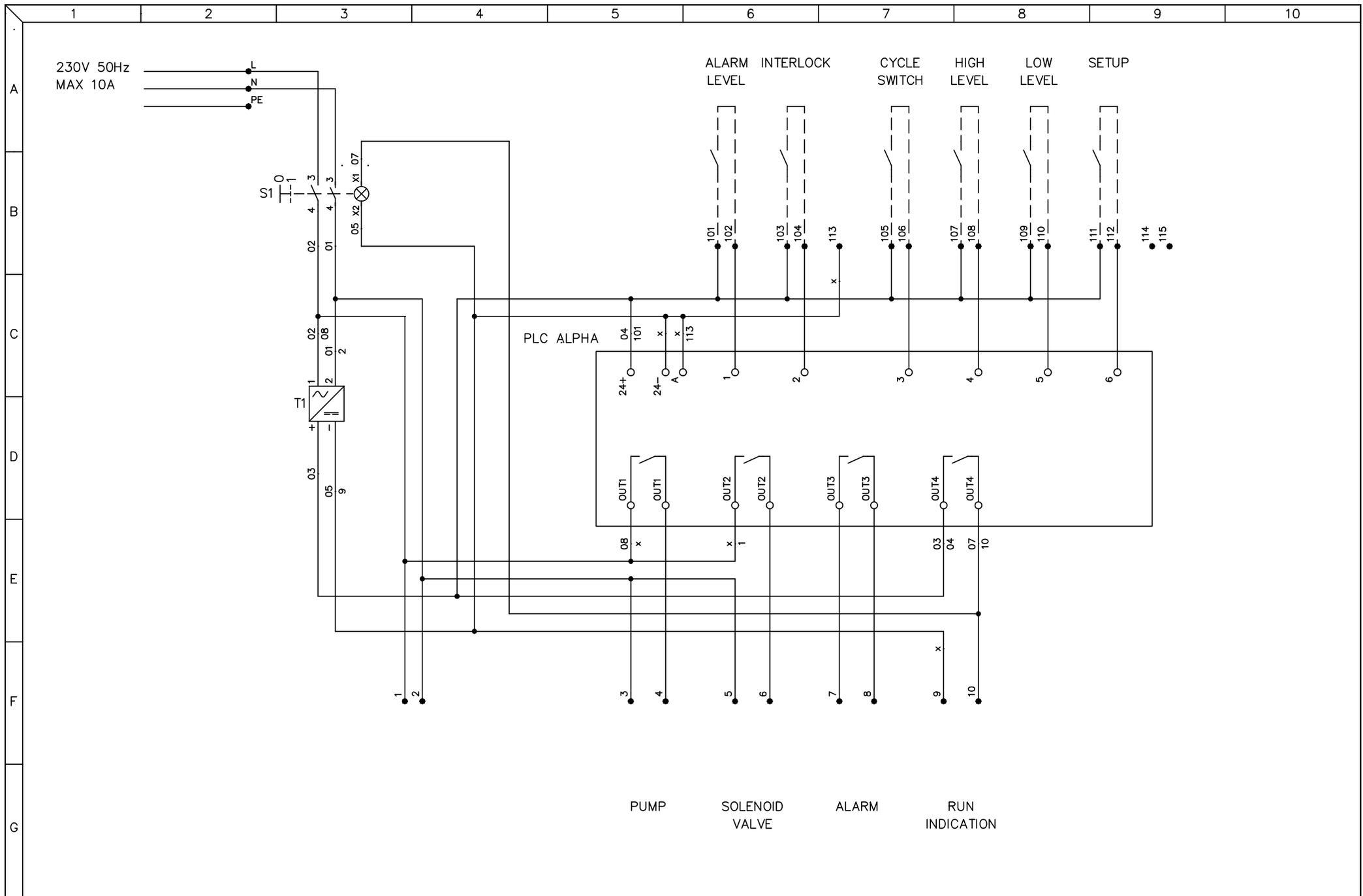


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CCL ALPHA  
CONTROL CABINET  
906716  
LAYOUT

Proj.no. 906716	Sheet 101	Cont. 301
Drawing no 906716		
Customer referens 906716		B





Filename: 906716  
 Designed by: KS  
 Drawn by: KS  
 Date: 20111104



CCL ALPHA  
 CONTROL CABINET  
 906716  
 CIRCUIT DIAGRAM

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Drawing no. 906716		
Customer referens 906716		B