

## **CONVERSION TABLE**

TIMER	BA99	BA1	BA99	BA2	BA99
TERMINAL POLES		TERMINAL POLES		TERMINAL POLES	

1	DL	1	L	1	N
2 3	DN (N*)	2	N	2	L
3	R	3	DN	3	SN
4	IN	4	DN (SN*)	4	SL
4 5 6	P1	5	SL	5	- SN
6	P2	6	DL	6	SL
7	G	7	*	7	IN
8	+	8	*	8	IL
9	*	9	*	9	DN
10	L	10	DL	10	DL
11	DL	11	G	11	DN
		12	IN	12	DL
		13	G		
		14	P1	1	IN
		15	G	2	G
		16	P2		
		17	**	1	P1-P3
		18	D	2	G
		19	R	3	+
		20	+	4	В
				1	P1
				2	G
				3	P2
				4	G
				5	P3
				6	G

<sup>\* )</sup> The capasitor that feeds the third coil of the motor must be connected internally
\*\*) Not used
N\*) Cable from the power supply is connected to N

SN\*) Cable from extra equipment is connected to SN

The DL\*, DN\* are connected to the switch marked water and is used to turn on and off the watervalve BA 99

## **TERMINAL EXPLINATIONS**

L	115/230 VAC SUPPLY LEAD
N	115/230 VAC SUPPLY NEUTRAL
DL*	115/230 VAC SUPPLY DURING DISPENSE LEAD ( water valve)
DN*	115/230 VAC SUPPLY DURING DISPENSE NEUTRAL (water valve)
DL	115/230 VAC SUPPLY DURING DISPENSE LEAD (motor)
DN	115/230 VAC SUPPLY DURING DISPENSE NEUTRAL (motor)
IL	115/230 VAC SUPPLY WHEN NOT DISPENSING LEAD (ex cardreader block)
IN	115/230 VAC SUPPLY WHEN NOT DISPENSING NEUTRAL (ex cardreader blocking signal)
SL	115/230 VAC SUPPLY FOR EQUIPMENT LEAD (ex cardreader)
SN	115/230 VAC SUPPLY DURING DISPENSE NEUTRAL (ex cardreader)
+	12VDC SUPPLY FOR CONVEYOR MOTOR (USED FOR THE RS-ULTIMA)
-	0 VDC SUPPLY FOR THE CONVEYOR MOTOR (USED FOR THE RS-ULTIMA)
В	BLOCK 0 VDC DURING DISPENSE
G	OV DC SUPPLY FOR BALL COUNTING SENSOR (ex limit switch)
IN	OUTPUT FROM BALL COUNTING SENSOR (ex limit switch)
+	12 VDC SUPPLY FOR BALL COUNTING SENSOR ( USED IN THE RS-ULTIMA)
+	12VDC SUPPLY FOR EXTERNAL EQUIPMENT (for payment systems)
G	SIGNAL GROUND (0 VDC)
P1-P3	PAYCHANNELS ( activated when connected to 0 VDC (G))
R	READY (green light on the door)
D	DISPENSING (red light on the door)
+	SUPPLY FOR LED (Light emitting diods on the door)

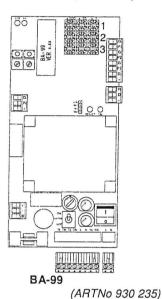


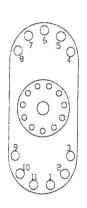
## Change from Timer, Ba1,Ba2 To Ba99 The circuit board BA-99 (Artnumber 930 235) is used in all new dispensers and as a

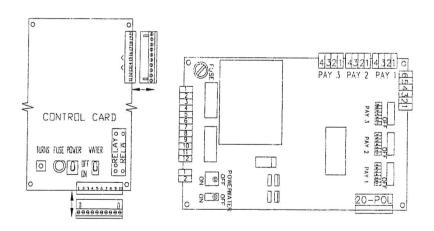
replacement for old ones (Artno 107 000, 109 300, 109 301) from the year 1999 if not else specified.

Use the following conversion table to reconnect your machine for the new printed circuit board. This printed circuit board (BA-99) is used in both the RS-ball dispensers as in the new RS-Ultima, which means that all cable terminals are not used.

The BA-99 has three individual payment channels with the ability to dispense up to 999 turns. For more information see BA-99 connection description drawing.







TIMER (ARTNo 107 000)

BA-1 (ARTNo 109 300)

BA-2 (ARTNo 109 301)