For 18H and 23H Controls

15 Preset Point–to–Point Moves (Software versions 18H–3.14.MP3 and 23H–3.11.MP4)

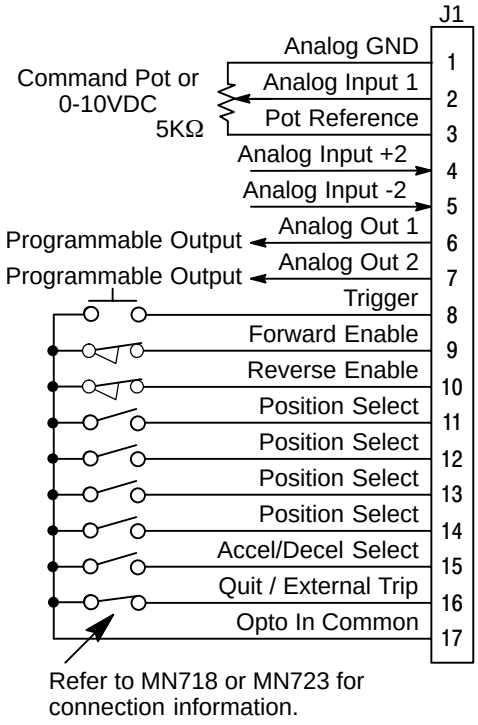
Optional software can be ordered with the control to allow 15 preset point–to–point moves without an additional motion controller. This software offers these additional features:

- 15 moves: 6 absolute, 8 incremental plus Home position
- Single input selects one of two accel/decel/speed profiles
- Move command is started by momentarily closing the Trigger input
- Forward and Reverse limit switch inputs
- Outputs for “In Motion” and “At Position” indications

The software is ordered at the time the control is ordered and is installed by Baldor’s Mod Express. The information in this appendix describes the operation of the 15 Preset Position operating mode.

Note: When the 15 preset position software is installed, the 15 Speed 2 Wire and Process Control modes are not available.

Figure 1 15 Position Mode Connection Diagram



Refer to MN718 or MN723 for connection information.

See MN718 or MN723 for recommended terminal tightening torque specifications.

J1-8 Momentary CLOSED starts a move command.
OPEN no move command is started.

J1-9 CLOSED to enable operation in the Forward direction.
OPEN TO DISABLE Forward operation (drive will brake to a stop if a Forward command is still present). Reverse operation is still possible if J1-10 is closed.

J1-10 CLOSED to enable operation in the Reverse direction.
OPEN to disable Reverse operation (drive will brake to a stop if a Reverse command is still present). Forward operation is still possible if J1-9 is closed.

Note: If J1-9 and J1-10 are both opened, the drive will brake to a stop.

J1-11 Position Select. See Table 1.

J1-12 Position Select. See Table 1.

J1-13 Position Select. See Table 1.

J1-14 Position Select. See Table 1.

J1-15 CLOSED selects Accel/Decel/S–Curve group 1 and Speed#1.
OPEN selects Accel/Decel/S–Curve group 2 and Speed#2.

J1-16 If J1-16 is for External Trip, set Level 2 Protection block, External Trip to “ON”.
CLOSED allows normal operation.
OPEN causes an external trip fault. The control will disable and the motor coasts to a stop. An external trip fault is displayed (also logged in the fault log). If the Level 2 Protection block, External Trip parameter is set to “OFF”, the control will stop (Quit) when J1-16 is opened.

Additional Opto Output Conditions

AT Position

Closed when at the commanded position.
Open when a new trigger is given.

In Motion

Closed when a new trigger is given but the new position has not yet been reached.
Open when the new position is reached and the motor is stopped.

Table 1 Switch Truth Table for 15 Preset Position, Operating Mode

Function	Move Type	J1-11	J1-12	J1-13	J1-14
Home	FWD Move	Open	Open	Open	Open
Position 2	Absolute	Closed	Open	Open	Open
Position 3	Absolute	Open	Closed	Open	Open
Position 4	Absolute	Closed	Closed	Open	Open
Position 5	Absolute	Open	Open	Closed	Open
Position 6	Absolute	Closed	Open	Closed	Open
Position 7	Absolute	Open	Closed	Closed	Open
Position 8	Incremental	Closed	Closed	Closed	Open
Position 9	Incremental	Open	Open	Open	Closed
Position 10	Incremental	Closed	Open	Open	Closed
Position 11	Incremental	Open	Closed	Open	Closed
Position 12	Incremental	Closed	Closed	Open	Closed
Position 13	Incremental	Open	Open	Closed	Closed
Position 14	Incremental	Closed	Open	Closed	Closed
Position 15	Incremental	Open	Closed	Closed	Closed
Fault Reset	Position Reset	Closed	Closed	Closed	Closed

Parameter Values

Table 2 Parameter Block Values Level 1

Level 1 Blocks					
Block Title	**Parameter**	P#	**Adjustable Range**	**Factory Setting**	**User Setting**
PRESET POSITION ±xxxx: ±yyyy Where: ±xxxx = Revolutions ±yyyy = Encoder Counts	POSITION #2	1001 / 1015	±0–9999 : ± Encoder Counts	0 : 0	
	POSITION #3	1002 / 1016	±0–9999 : ± Encoder Counts	0 : 0	
	POSITION #4	1003 / 1017	±0–9999 : ± Encoder Counts	0 : 0	
	POSITION #5	1004 / 1018	±0–9999 : ± Encoder Counts	0 : 0	
	POSITION #6	1005 / 1019	±0–9999 : ± Encoder Counts	0 : 0	
	POSITION #7	1006 / 1020	±0–9999 : ± Encoder Counts	0 : 0	
	POSITION #8	1007 / 1021	±0–9999 : ± Encoder Counts	0 : 0	
	POSITION #9	1008 / 1022	±0–9999 : ± Encoder Counts	0 : 0	
	POSITION #10	1009 / 1023	±0–9999 : ± Encoder Counts	0 : 0	
	POSITION #11	1010 / 1024	±0–9999 : ± Encoder Counts	0 : 0	
	POSITION #12	1011 / 1025	±0–9999 : ± Encoder Counts	0 : 0	
	POSITION #13	1012 / 1026	±0–9999 : ± Encoder Counts	0 : 0	
	POSITION #14	1013 / 1027	±0–9999 : ± Encoder Counts	0 : 0	
	POSITION #15	1014 / 1028	±0–9999 : ± Encoder Counts	0 : 0	

Continued on next page.

Table 2 Parameter Block Values Level 1 Continued

ACCEL/DECEL RATE	ACCEL TIME #1	1101	0 to 3600 Seconds	3.0 SEC	
	DECEL TIME #1	1102	0 to 3600 Seconds	3.0 SEC	
	S-CURVE #1	1103	0-100%	0 %	
	SPEED #1	1104	0-Max Speed	100	
	ACCEL TIME #2	1105	0 to 3600 Seconds	3.0 SEC	
	DECEL TIME #2	1106	0 to 3600 Seconds	3.0 SEC	
	S-CURVE #2	1107	0-100%	0 %	
	SPEED #2	1108	0-Max Speed	100	
INPUT	OPERATING MODE	1401	KEYPAD STANDARD RUN 15 PRESET POS 3SPD ANA 2 WIRE 3SPD ANA 3 WIRE SERIAL BIPOLAR PROCESS MODE EPOT – 2 WIRE EPOT – 3 WIRE	KEYPAD	
OUTPUT	OPTO OUTPUT #1	1501	READY ZERO SPEED AT SPEED OVERLOAD KEYPAD CONTROL AT SET SPEED FAULT FOLLOWING ERR MOTR DIRECTION DRIVE ON CMD DIRECTION AT POSITION OVER TEMP WARN PROCESS ERROR DRIVE RUN SERIAL IN MOTION	AT POSITION	
	OPTO OUTPUT #2	1502		IN MOTION	
	OPTO OUTPUT #3	1503		AT SPEED	
	OPTO OUTPUT #4	1504		FAULT	
	ZERO SPD SET PT	1505	1-2500	200 RPM	
	AT SPEED BAND	1506	1-1000 RPM	100 RPM	
	SET SPEED	1507	0-2500	2500 RPM	