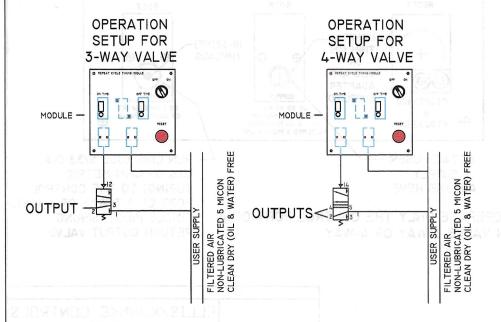
5IRCM PNEUMATIC REPEAT CYCLE TIMING MODULE

THE 5 IRCM IS DESIGNED TO OPERATE THE CONTROL (VIA THE CONTROL PORT) OF 3-WAY & 4-WAY, SINGLE PILOT, SPRING RETURN OUTPUT VALVES. THE FOLLOWING KUHNKE VALVES ARE COMPATIBLE WITH THIS MODULE:

	PORT	CATALOG NUMBERS (USA STD. PORTS)				
	THD. 3-WAY		4-WAY	FLOW RATE (SCFM)		
	SIZE	VALVES	VALVES	@45 PSI	@100 PSI	
	10-32 79012		81012	3	7	
	1/8 NPT	N/A (87 SERIES)	87122	10	25	
	1/8 NPT 75022-71-21		75023-71-41	17	32	
			75043-81-41	22	39	

PORT	CATALOG NUMBERS		007920019	
THD.	3-WAY	4-WAY	FLOW RATE (SCFM)	
SIZE	VALVES	VALVES	@45 PSI	@100 PSI
M5	79012	81012	3	7
G 1/8	6 1/8 85022	87022	10	25
G 1/8	76022-71-21	76023-71-41	17	32
G 1/4	N/A (75 SERIES)	76043-81-41	° 5.22	39



OPERATION:

WHEN OFF/ON SWITCH IS TURNED "ON" - AIR FLOWS THRU PORT#2 OF DOUBLE PILOT VALVE TURNING THE OUTPUT "ON" AND STARTING THE "ON TIME TIMER. AT THE END OF THE SET TIME DELAY, DOUBLE PILOTED VALVE TRANSFERS AND AIR NOW FLOWS THRU PORT#4. THIS TURNS "OFF" OUTPUT, RESETS ON TIMER AND STARTS OFF TIMER. AT THE END OF OFF TIMER SET TIME DELAY THE DOUBLE PILOT VALVE IS RETURNED TO ITS ORIGINAL POSITION. TIMED CYCLING IS REPEATED UNTIL ON/OFF SWITCH IS TURNED OFF.

NOTE: THE RESET BUTTON IS USED (BEFORE STARTING CIRCUIT) WHEN ON/OFF SWITCH IS IN THE OFF POSITION. MOMENTARY DEPRESS AND RELEASE TO BIAS CIRCUIT SO THAT IT ALWAYS STARTS WITH ON TIMER. ALSO USED FOR CIRCUIT RESET.

ENVIRONMENT:

NOT SUITABLE FOR EXTERNAL OR HARSH ENVIRONMENTS. PROTECT FROM CORROSION, MOISTURE AND DIRTY ENVIRONMENTS. GENERAL ADVISE IS TO HOUSE WITHIN A PROPERLY VENTED ENCLOSURE WITH SUITABLE PROTECTION.

EXHAUST:

AIR WILL EXHAUST FROM THIS MODULE AS PART OF THE OPERATING SEQUENCE. THE EXHAUSTED AIR CAN BUILD UP PRESSURE IN AN ENCLOSURE WHICH MAY EFFECT OPERATION. CONSEQUENTLY, THE ENCLOSURE SHOULD BE PROPERLY VENTED.

TECHNICAL SPECIFICATION FOR 5IRCM MODULE:

OPERATING PRESSURE RANGE

40 TO 90 PSI

TEMPERATURE RANGE

32° TO 122°F (0° TO 50°C)

SUPPLY AIR QUALITY

CLEAN, DRY, OIL FREE AIR TO INSTRUMENT

QUALITY STANDARDS. 5 MICRON FILTERED, DRY NON-LUBRICATED AIR OR NON-AGGRESIVE GAS.

TIME SETTING

VIA ROTARY KNOB. NOTE: SET TIME DELAY ONLY ONLY WHEN SEQUENCE IS NON-OPERATIONAL "OFF"

30 SEC. (+/- 0.6S)

TIMER SETTING ACCURACY

120 SEC. (+/- 3.0s)

300 SEC. (+/- 6.0s)

TIMER REPEAT ACCURACY

30 SEC. (+/- 0.3S)

120 SEC. (+/- 1.2s)

300 SEC. (+/- 3.0s)

NOTE: THE USER MUST SUPPLY AN ON/OFF VALVE AT THE SUPPLY TO THIS PRODUCT OTHERWISE AIR PRESSURE WILL BE PRESENT AT THE START & RESET STOP VALVES.

DISCLAIMER:

ELLIS KUHNKE CONTROLS ACCEPTS NO RESPONSIBILITY FOR THE APPLICATION OF THIS PRODUCT. IT IS UP TO THE PURCHASER/SPECIFIER/END USER TO COME UP WITH AN ACCEPTABLE DESIGN.

ELLIS/KUHNKE CONTROLS

APPROVALS DATE

OPERATING INSTRUCTIONS FOR

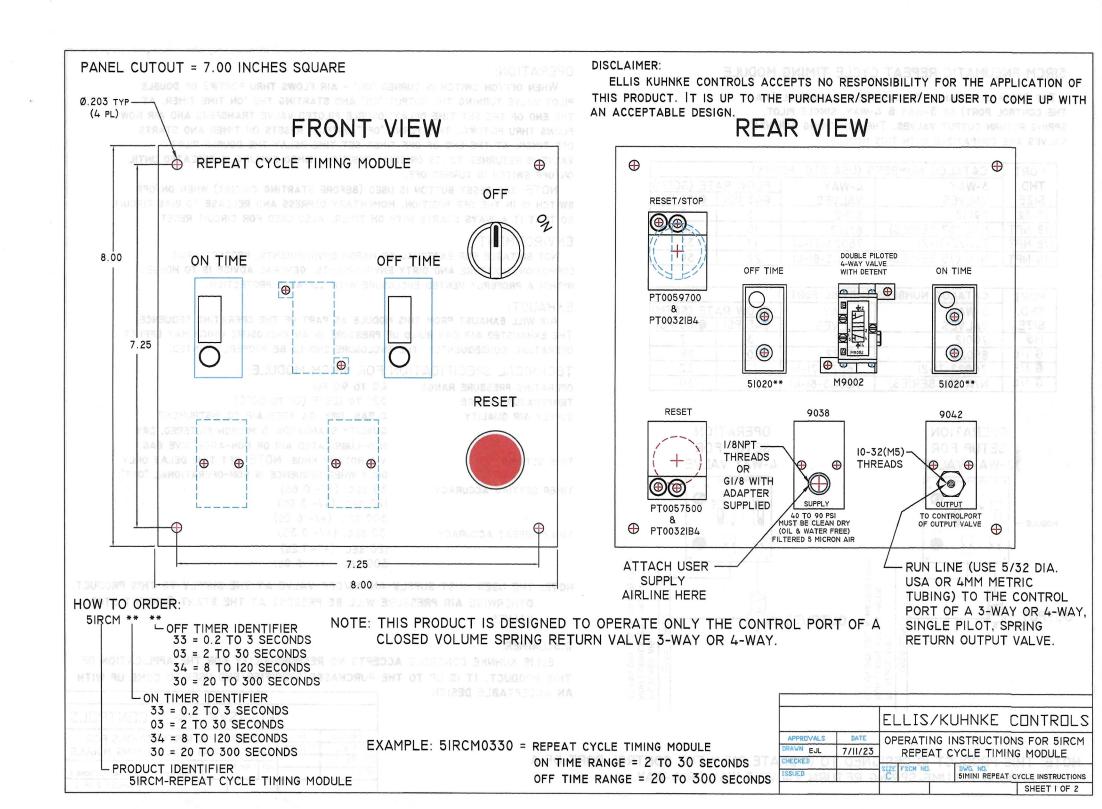
5 IRCM REPEAT CYCLE TIMING MODULE

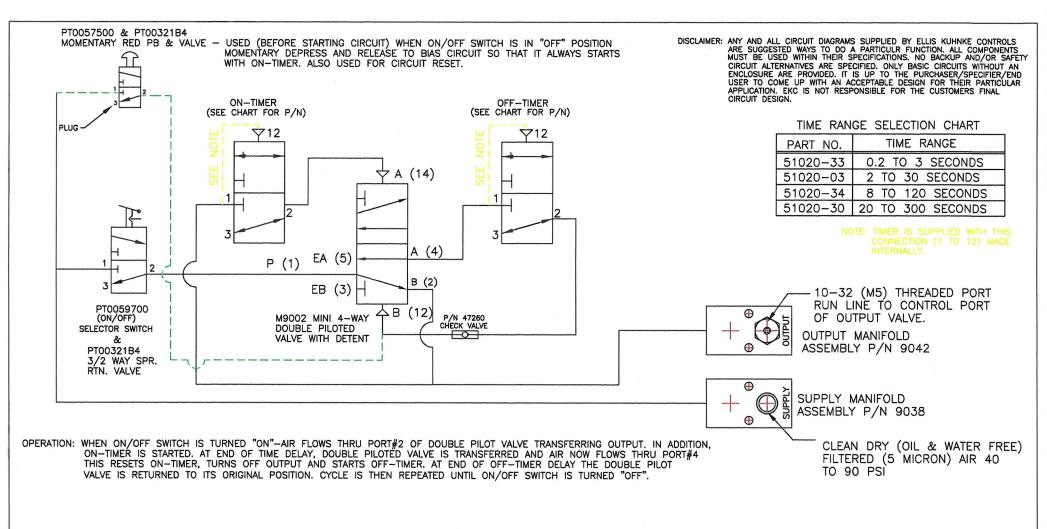
SSUED DWG. NO.

5 IMINI REPEAT CYCLE INSTRUCTIONS-2

SHEET 2 0F 2

NOTE: THIS PRODUCT IS DESIGNED TO OPERATE ONLY THE CONTROL PORT OF A CLOSED VOLUME SPRING RETURN VALVE 3-WAY OR 4-WAY.





COMPONENT LIST:

QTY	PART NUMBER	DESCRIPTION
1	PT0057500	MOMENTARY "RED" PUSH BUTTON ASSEMBLY
1	PT0059700	SHORT LEVER SELECTOR (TWO POSITIONS) BISTABLE ASSEMBLY
2	PT00321B4	3/2-WAY SPRING RETURN TO NORMALLY CLOSED VALVE BODY ACTUATORS
2	51020-**	51MINI PNEUMATIC TIMERS (SELECT TIME RANGES FROM CHART)
1	M9002	4-WAY MINI VALVE ASSEMBLY WITH DETENT
1	9042	OUTPUT MANIFOLD ASSEMBLY
1	9038	SUPPLY MANIFOLD ASSEMBLY
1	47260	CHECK VALVE ASSEMBLY

ELLIS/KUHNKE CONTROLS						
DRAWN BY EJL	4/24/23		REPI	EAT	CYCLE	CIRCUIT
ISSUED		SIZE FSCM NO.		51MINI-RCM-SCHEMATIC		
						SHEET