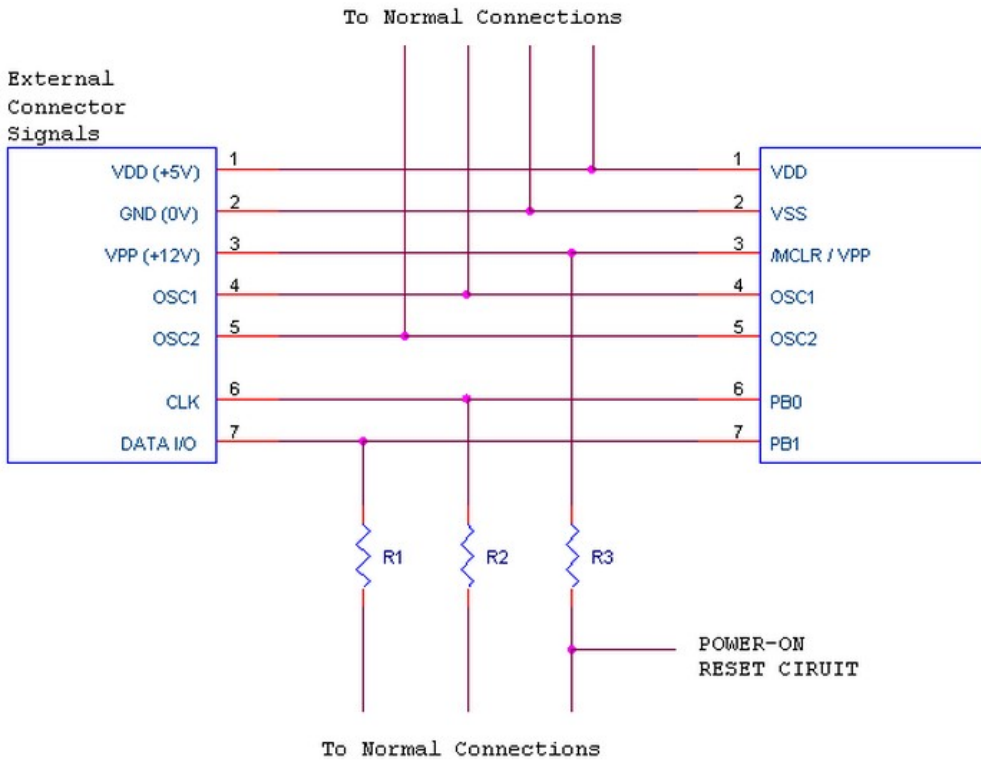


The typical serial programming connection for MDT (exterior oscillator) :

TYPICAL IN CIRCUIT SERIAL PROGRAMMING CONNECTION

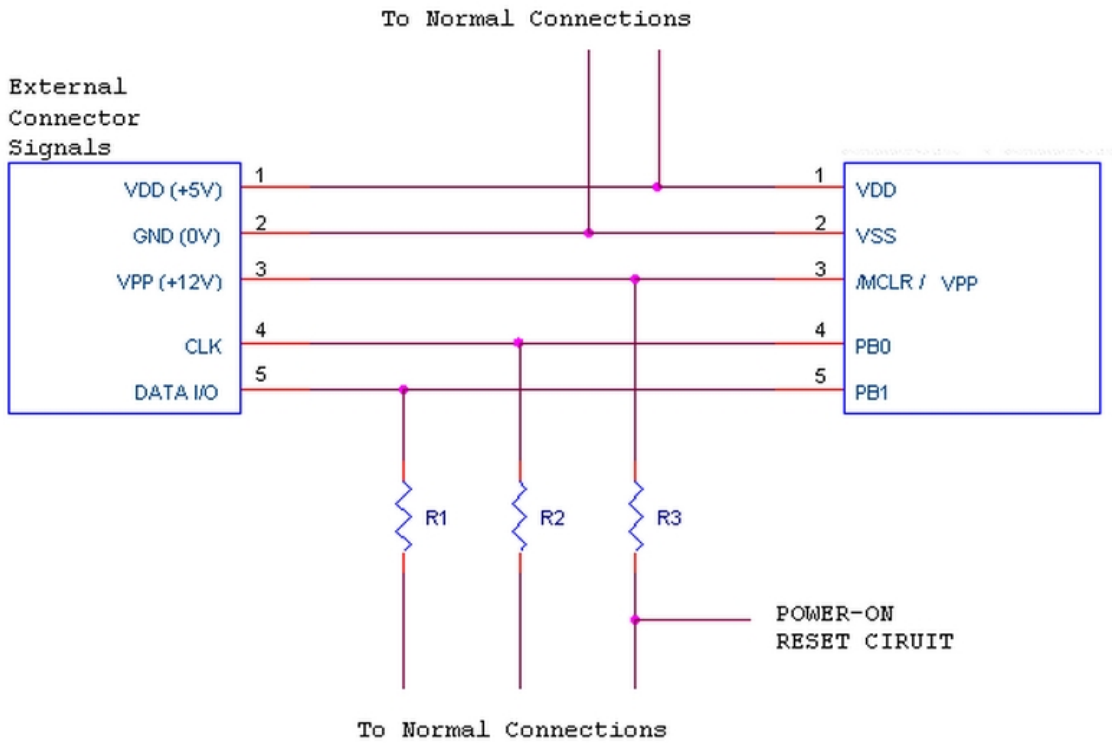


The device detail could be referred as following (confirming the program pin needed to write connection) :

MDT device	VDD (+5V)	GND	VPP (+12)	VPP (+12)	DATA	CLK	VPP (+12)	VPP (+12)	VPP (+12)	DATA	CLK	OSC1	OSC2
	VDD	VSS	MCLR	PB3	PB1	PB0	PA7	PA4	PA3	PA1	PA0	OSC1	OSC2
MDT10P55B2	V	V		V	V	V						V	V
MDT10P55B4	V	V	V		V	V						V	V
MDT10P57A2	V	V							V	V	V	V	V
MDT10P57A4	V	V	V							V	V	V	V
MDT10P43	V	V	V		V	V	V					V	V
MDT10P223/ MDT10P257/258	V	V	V		V	V						V	V
MDT10P712/716	V	V	V		V	V						V	V
MDT10P62/621/ MDT10P72/721/73/7301	V	V	V		V	V						V	V
MDT10P64/65/651/ MDT10P74/7401	V	V	V		V	V						V	V
MDT11P0122	V	V	V		V	V						V	V
MDT13P11	V	V	V		V	V						V	V
MDT14P201P12	V	V	V		V	V						V	V
MDT10P7212P12	V	V			V	V		V				V	V

The typical serial programming connection for MDT (internal RC oscillator)

TYPICAL IN CIRCUIT SERIAL PROGRAMMING CONNECTION

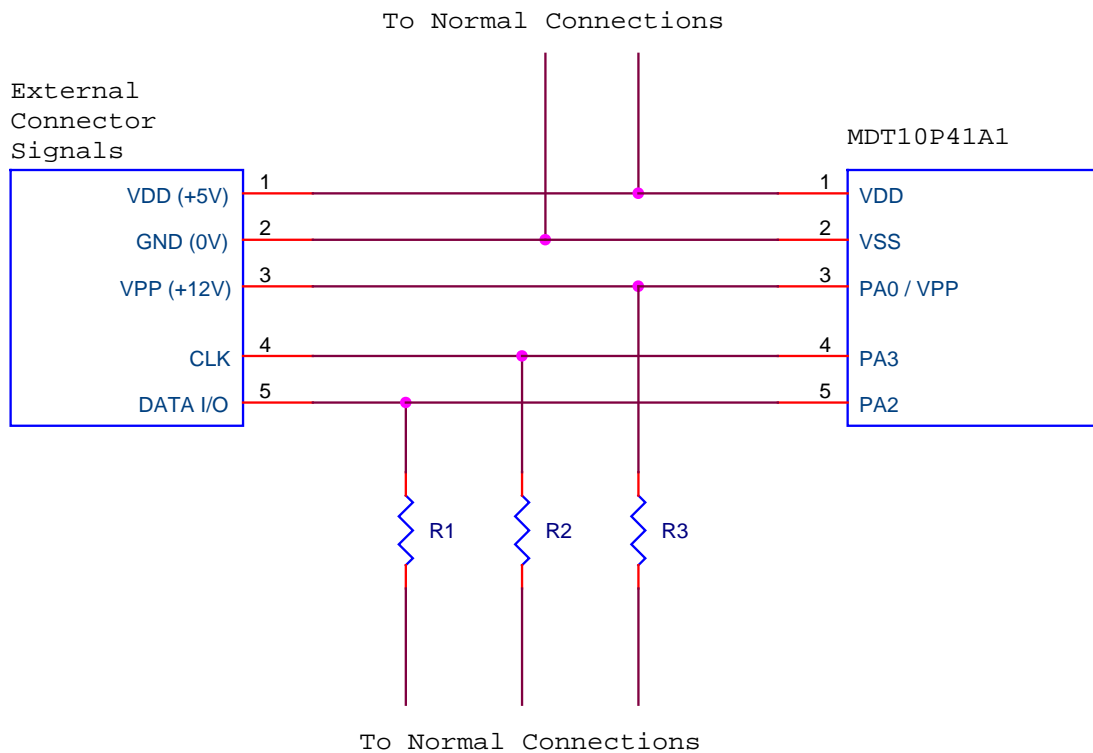


The device detail could be referred as following (confirming the program pin needed to write connection) :

MDT device	VDD (+5V)	GND	VPP (+12)	VPP (+12)	DATA	CLK	VPP (+12)	VPP (+12)	VPP (+12)	DATA	CLK	OSC1	OSC2
	VDD	VSS	MCLR	PB3	PB1	PB0	PA7	PA4	PA3	PA1	PA0	OSC1	OSC2
MDT10P55B1	V	V		V	V	V							
MDT10P55B3	V	V	V		V	V							
MDT10P57A1	V	V						V	V	V			
MDT10P57A3	V	V	V						V	V			
MDT10P5701A1	V	V						V	V	V			
MDT10P5701A3	V	V	V						V	V			
MDT10P432	V	V			V	V	V						
MDT10F630/6301/676	V	V						V	V	V			
MDT10P123/256	V	V	V		V	V							
MDT10P157/158	V	V	V		V	V							
MDT14P201P11	V	V	V		V	V							
MDT10P611	V	V		V	V	V							

The typical serial programming connection for MDT 10P41 A1:

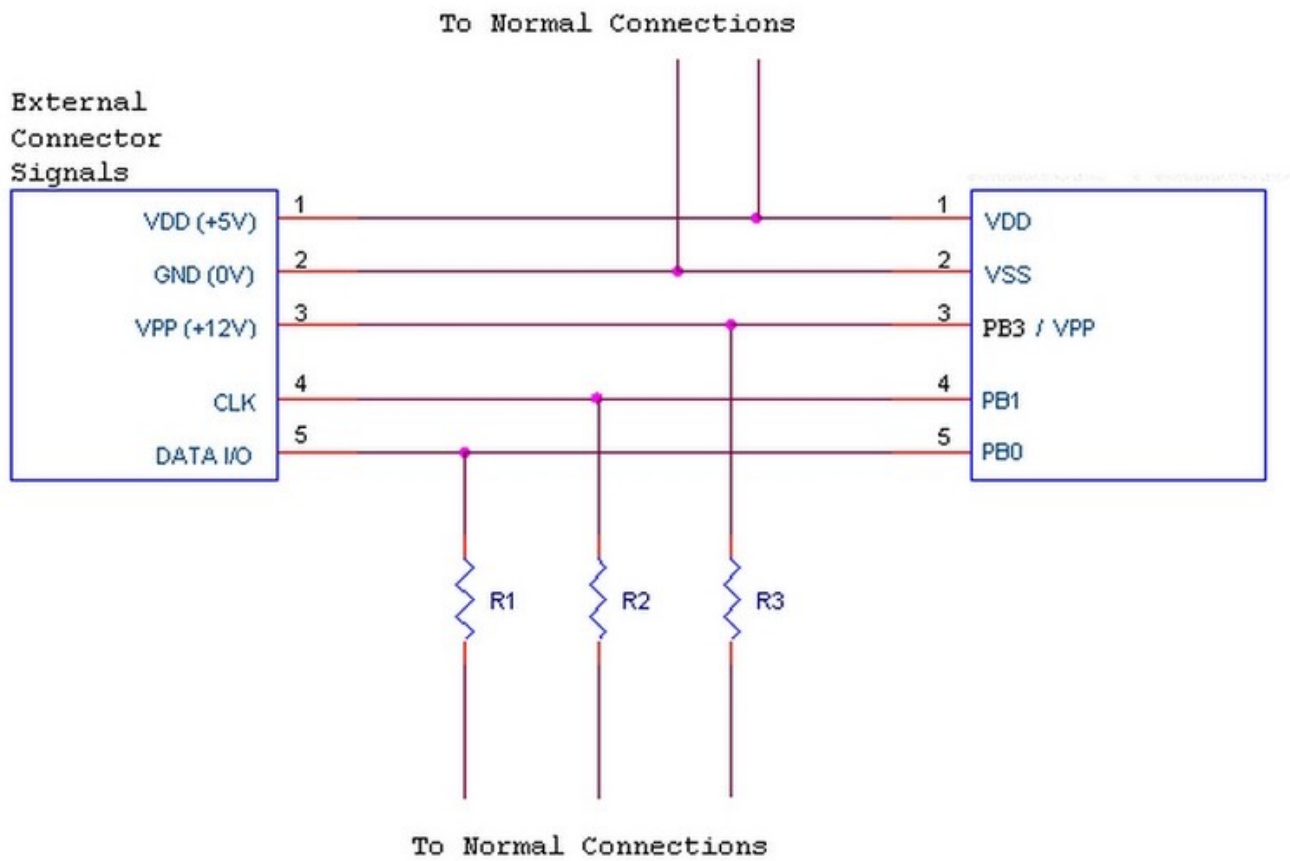
TYPICAL IN_CIRCUIT SERIAL PROGRAMMING CONNECTION



MDT device	VDD (+5V)	GND	VPP (+12)	DATA I/O	CLK
MDT10P41A1	VDD	VSS	PA0	PA2	PA3

The typical serial programming connection for MDT 90P01:

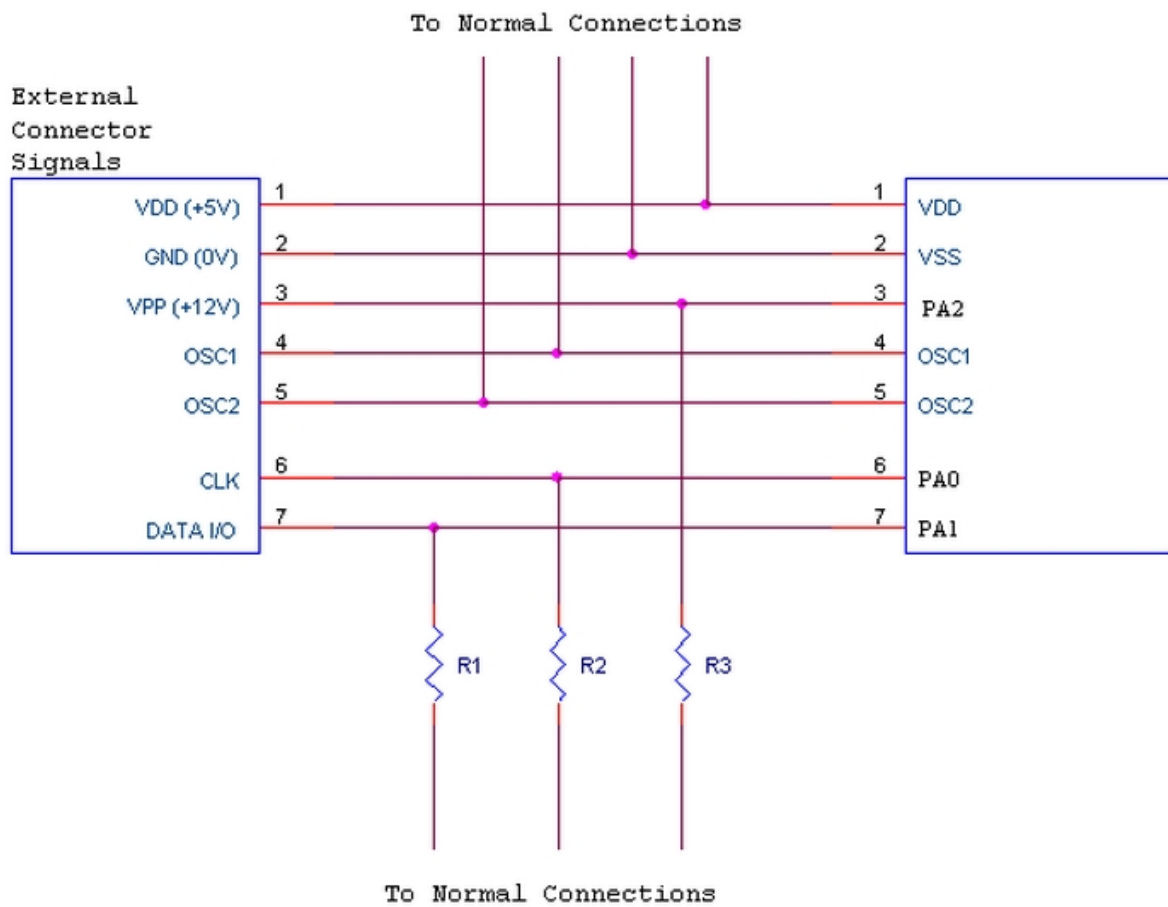
TYPICAL IN CIRCUIT SERIAL PROGRAMMING CONNECTION



MDT device	VDD (+5V)	GND	VPP (+12)	DATA I/O	CLK
MDT90P01	VDD	VSS	PB3	PB0	PB1

The typical serial programming connection for MDT 13P02:

TYPICAL IN CIRCUIT SERIAL PROGRAMMING CONNECTION



MDT device	VDD (+5V)	GND	VPP (+12)	DATA I/O	CLK	OSC1	OSC2
MDT13P02	VDD	VSS	PA2	PA1	PA0	OSC1	OSC2