

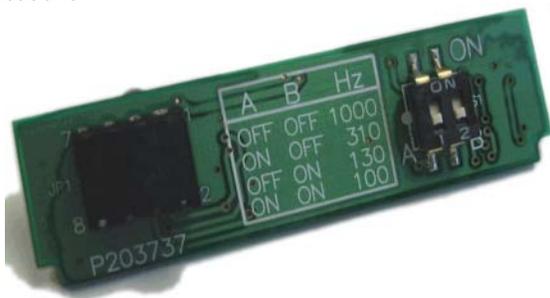
The pulse width modulation (**PWM**) output option card has been developed to offer low cost digital signalling with the ICT and SLT range of contactless linear transducers.

The **PWM** option card is used in conjunction with the **EICT** and **EICT-M** electronics modules that are the signal conditioning electronics packages for the transducer range.

When the **PWM** option card is used with the **EICT** modules, the transducers can be operated from a 10 – 30 Vdc supply and provide a TTL-level compatible signal which has a 10-90% duty cycle proportional to the transducer displacement.

The **PWM** option card can be configured to operate at four different frequencies, allowing users to choose the best compromise between digital resolution and acquisition speed for their particular system.

By using this new option card, OEMs can now expand their digital control logic offering for a variety of linear displacement applications.



PWM

PULSE WIDTH MODULATION OUTPUT OPTION CARD

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SPECIFICATION

Output frequencies	Hz	100, 130, 310, 1000
Frequency accuracy	%	±10
Output levels	Vdc	LOGIC HIGH 4.5 ±0.5 LOGIC LOW <0.4
Rise/Fall time	µS	<2 with Inf load capacitance
Output range	%	10 (Zero) to 90 (Span)
Current consumption	mA	3 (additional to EICT module)

INSTALLATION AND SET-UP

Supplementary instructions to be used in conjunction with EICT Installation and set-up guide.

Step 10(B)

if Pulse Width Modulated (**PWM**) output option card is selected, ensure steps 5, 7, 8 & 9 in the **EICT Installation and set-up guide** have been completed. Switch off power supply to **EICT**. Locate the **DIP** switch on **PWM** card. (see Fig. 6) Select the required output frequency using the matrix table printed on the PWM card and set the DIP switch positions accordingly.

Remove 'jumper' from **JP2** and store on **V(T) LINK PARK** terminals. (See Fig.1 in set-up guide for location details) Insert **PWM** output option card into position **JP2**. Monitor the PWM output (Terminal 5) with respect to GND (Terminal 4) using an oscilloscope. Power up the **EICT**.

Check that output is 10-90% of duty cycle over the stroke of the transducer core. (Equivalent to 0.5 to 4.5Vdc output). (See Fig. 7)

If adjustment is required:-

Move transducer core to the fully 'Lo' position (See Step 4 and Fig. 2). Adjust '**ZERO**' trim pot until the required output (10% duty cycle) is achieved.

Move transducer core to the fully 'Hi' position and adjust '**GAIN**' trim pot until required output (90% duty cycle) is achieved.

Continue following instruction steps 11, 12 and 13 in the EICT Installation and set-up guide. The transducer and EICT are now ready for use.

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