Performance:

Supply voltage, unregulated Vdc
limited to 13.5 min. on certain ranges - see options table

Supply current mA

Output voltage signal Vdc

Output current signal mA

Output PWM signal

Output ripple mVrms

Output load Ω

Frequency response Hz

Line regulation

Power on settlement

Output adjustment range zero adjustment

gain adjustment

Operational temperature °C

Storage temperature °C

Temperature stability ppm/°C

EMC Immunity level

EN61000-6-2: 10kHz to 1GHz

Transducer types

Mechanical housing

Weight maximum g

Output Characteristics:

EICT standard unit
10 - 60Vdc supply

EICT with VM card fitted
10 - 30Vdc supply

EICT with CM card fitted
10 - 30Vdc or ± (10 - 30) Vdc supply

EICT with VM card fitted
10 - 30Vdc or ± (10 - 30) Vdc supply

Notes:

1. The SLT190 transducer is supplied with a Sensor Calibration Module Card (SCMC) which is calibrated to match the transducer electrical stroke. This card must be inserted into the EICT signal conditioning unit before operation. The EICT is user configurable for input and output options.

Full details on installation and set-up are included in the manual supplied with the EICT module.
OUTPUT OPTIONS

<table>
<thead>
<tr>
<th>Output option</th>
<th>Supply voltage range Vdc</th>
<th>EICT with VM option card</th>
<th>EICT with CM option card</th>
<th>EICT with PWM option card</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 - 4.5Vdc</td>
<td>10 - 60 or ±(10 - 30)</td>
<td>✔</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>0 - 5Vdc</td>
<td>10 - 30 or ±(10 - 30)</td>
<td>✔</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>0 - 10Vdc</td>
<td>13.5 - 30 or ±(13.5 - 30)</td>
<td>✔</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>±2.5Vdc</td>
<td>10 - 30 or ±(10 - 30)</td>
<td>✔</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>±5Vdc</td>
<td>10 - 30 or ±(10 - 30)</td>
<td>✔</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>±7.5Vdc</td>
<td>13.5 - 30 or ±(13.5 - 30)</td>
<td>✔</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>±10Vdc</td>
<td>13.5 - 30 or ±(13.5 - 30)</td>
<td>✔</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>4 - 20mA</td>
<td>10 - 30 or ±(10 - 30)</td>
<td>✔</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>TTL (10-90%)</td>
<td>10 - 30 or ±(10 - 30)</td>
<td>✔</td>
<td>N/A</td>
<td>✔</td>
</tr>
</tbody>
</table>

Slope reversal

PWM output signal
- TTL level compatible signal with a 10-90% duty cycle
- Output frequencies Hz: 100, 130, 310, 1000 (user selected)
- Frequency accuracy %: ±10
- Output levels Vdc: LOGIC HIGH 4.5 ±0.5, LOGIC LOW <0.4
- Rise/Fall time µS: <2 with 1nF load capacitance
- Output range %: 10 (zero) to 90 (span)

Continual development of output options means we are working on additional EICT module output options. Please ask for details.

DIMENSIONS

Note: drawings not to scale

ELECTRICAL CONNECTIONS

Screw terminals

Misconnection of the supply may cause permanent damage
† The Green wire is internally connected to the transducer case. However, due to the construction of the transducer external moving parts, the Green connection should not be used as a ground connection.

Note: refer to the EICT set-up guide for details on how to connect to a split rail power supply.

AVAILABILITY

Normally available from stock

ORDERING CODES

- EICT - module with 0.5 to 4.5Vdc output, IP66 protected plastic housing
- EICTM - module with 0.5 to 4.5Vdc output, IP68 protected metal housing

ACCESSORIES

- VM - voltage module output option card
- CM - current module output option card
- PWM - pulse width modulation output option card

order separately
www.pennyandgiles.com

Penny & Giles
Position sensors and joysticks for commercial and industrial applications.

15 Airfield Road
Christchurch
Dorset BH23 3TG
United Kingdom
+44 (0) 1202 409409
+44 (0) 1202 409475 Fax
sales@pennyandgiles.com

36 Nine Mile Point Industrial Estate
Cwmfelinfach
Gwent NP11 7HZ
United Kingdom
+44 (0) 1495 202000
+44 (0) 1495 202006 Fax
sales@pennyandgiles.com

5875 Obispo Avenue
Long Beach CA 90805
USA
+1 562 531 6500
+1 562 531 4020 Fax
us.sales@pennyandgiles.com

Strausenlettenstr. 7b
85053 Ingolstadt,
Germany
+49 (0) 841 61000
+49 (0) 841 61300 Fax
info@penny-giles.de

The information contained in this brochure on product applications should be used by customers for guidance only. Penny+Giles Controls Ltd makes no warranty or representation in respect of product fitness or suitability for any particular design application, environment, or otherwise, except as may subsequently be agreed in a contract for the sale and purchase of products. Customer’s should therefore satisfy themselves of the actual performance requirements and subsequently the products suitability for any particular design application and the environment in which the product is to be used.

Continual research and development may require change to products and specification without prior notification. All trademarks acknowledged.

© Penny+Giles Controls Ltd 2009

Innovation In Motion