TERMINAL CONNECTIONS

DV [1] DV RETURN
DV [2] DV RETURN
OUT [7] CURRENT OUTPUT
(4-20mA)

OUT [2] OUTPUT VOLTAGE
G[1] 4V SUPPLY
G[2] AVE SUPPLY
(16-30Vdc)

Y[4] VRTY YELLOW
B[5] VRTY BLUE
G[6] VRTY GREEN

(10) VRTY SCREEN

SPECIFICATION DATA

SUPPLY VOLTAGE: 18-30Vdc (REGULATED)
SUPPLY CURRENT: <100mA MAX
LINE REGULATION: <2.5% SPAN/VOLT
POWER ON SETTLEMENT: <10% SPAN WITHIN 5 SECONDS
<0.25% SPAN WITHIN 3 MINUTES
OUTPUT: 4mA TO 20mA (CURRENT)
DV TO 10V (VOLTAGE)
4mA(0V) VRTY SHAFT RETRACTED,
20mA(10V) VRTY SHAFT EXTENDED.
SEE PENNY & GILES DRAWING D44010
FOR SLOPE REVERSAL SETTING

OUTPUT LOAD (CURRENT OUTPUT):
4000 MAXIMUM @ 16Vdc SUPPLY
7000 MAXIMUM @ 24Vdc SUPPLY
10000 MAXIMUM @ 30Vdc SUPPLY
OUTPUT ADJUSTMENT:
±10% SPAN 100% ZERO OFFSET
OUTPUT RMPLE:
500 ppm

TEMPERATURE RANGE:
OPERATIONAL: 0°C TO +60°C OPERATIONAL
STORAGE: -20°C TO +70°C

TEMPERATURE COEFFICIENT (AVERAGE): <300ppm SPAN/°C (SEE NOTE 1)

NOTE

1. AVERAGE TEMPERATURE COEFFICIENT = Δ OUTPUT x 10
2. FOR USE WITH VRTY MODELS D00, D08, 100 AND 180

Penny & Giles
POSITION SENSORS LIMITED, Christchurch, Dorset, U.K.

DRAWN
P.W.

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I. HURST

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Pictorial View of Electronic Module

Connections Terminals

Connection Terminals

** Specification Data **

Supply Voltage: 18-30Vdc (regulated)
Supply Current: <100mA max
Line Regulation: <0.2% Span/Volt
Power on Settling: <10% Span within 3 seconds
Output: <0.05% Span within 3 minutes
Output Adjustment: See Table for Full VVVT Electrical
Output Load (Current Output): 4000 max @ 18V Supply
7000 max @ 24V Supply
10000 max @ 30V Supply

Note: When calibrated to give 4 to 20mA output current, the voltage output (3) will be approximately 0 to 10V.

Output Current Options

<table>
<thead>
<tr>
<th>Shift Retract</th>
<th>Shift Extend</th>
<th>Pitch Jumper Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>4mA (0V)</td>
<td>20mA (18V)</td>
<td>A A</td>
</tr>
<tr>
<td>20mA (10V)</td>
<td>4mA (0V)</td>
<td>B A</td>
</tr>
</tbody>
</table>

** Calibration Procedure **

a) Set Pitch jumper positions on K2 and K3 to select desired output format (See Fig. 1 and Table).

b) Mechanically position VVVT shaft to desired 4mA position and adjust zero trim pot (P1) to give 4mA output current. (Take care not to introduce deadband.)

c) Mechanically position VVVT shaft to desired 20mA position and adjust gain trim pot (P2) to give 20mA output.

** Setting Instructions **

VvVt Specific Program Module

Gain Adjust

Zero Adjust

K1

K2

Pitch Jumper In Position 'A'

Pitch Jumper In Position 'B'

Voltage To Current Module

Main PCB Assy

Connection Schematic

DIN Rail Box Connections

Connection Data

Output Voltage: 18-30Vdc regulated supply
Output Current: 4mA to 20mA
Output Load: 4000 max @ 18V Supply
7000 max @ 24V Supply
10000 max @ 30V Supply

Position Sensors Limited

Material: -
Finish: -
Tolerances: -

Dimensions: -