Signal Transducer

- Input / Output configuration selected via DIP switch combinations
- Choice of multiple analog input-output configurations
- Provides 3-way galvanic isolation of 3.75kV
- Fast output Response Time (<100ms)
- Sleek 22.5mm wide

Ordering Information

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2SC3D11CC3</td>
<td>Signal Transducer, 24 VDC, 1 Input &amp; 1 Output, Voltage &amp; Current, 3 Port Isolation, Base / DIN, Input Signal: 0-10 VDC, 2-10 VDC, 0-20 mA, 4-20 mA</td>
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<tr>
<td>2SC3D11DC3</td>
<td>Signal Transducer, 24 VDC, 1 Input &amp; 1 Output, Voltage &amp; Current, 3 Port Isolation, Base / DIN, Input Signal: 0-5 VDC, 1-5 VDC, 0-20 mA, 4-20 mA</td>
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<tr>
<td>2SC3D11EC3</td>
<td>Signal Transducer, 24 VDC, 1 Input &amp; 1 Output, Voltage &amp; Current, 3 Port Isolation, Base / DIN, Input Signal: 0-10 VDC, 2-10 VDC, 0-10 mA, 2-10 mA</td>
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# Signal Transducer

## Parameters

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<th>2SC3D11DC3</th>
<th>2SC3D11EC3</th>
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<tbody>
<tr>
<td>Supply Voltage (V)</td>
<td>24 V DC</td>
<td>0-5 V DC</td>
<td>0-10 V DC</td>
</tr>
<tr>
<td>Supply Variation</td>
<td>-15% to +15% (of V)</td>
<td>1-5 V DC</td>
<td>2-10 V DC</td>
</tr>
<tr>
<td>Power Consumption (Max.)</td>
<td>4 VA</td>
<td>20mA DC</td>
<td>10mA DC</td>
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## Device Characteristics

### Input Signal

- Voltage: 0-10V DC
- Current: 2-10mA DC
- Voltage: 0-20mA DC
- Current: 4-20mA DC

### Input Impedance

- Voltage I/P: 100K Ohm approx.
- Current I/P: 100 Ohm approx.

### Output Signal

- Voltage: 0-10VDC, 2-10VDC (min. 1 kOhm load)
- Current: 0-20mA DC, 4-20mA DC (max. 500 Ohm load)

### Accuracy

- 1% of full scale

### Offset

- ± 5% of full scale Adjustable

### Gain

- ± 10% of full scale Adjustable

### Linearity

- <0.02% of full scale

## Protections

- Input supply reverse polarity: Yes
- Input signal reverse polarity: Yes
- Output short circuit current: <25mA (Output Voltage mode)
- Output open circuit voltage: (12-14)VDC (Output Current mode)
- LED Indication: GREEN LED: Power ON
- Operating Temperature: -10°C to +55°C
- Storage Temperature: -15°C to +60°C
- Humidity (Non Condensing): 95% (Rh)
- Enclosure: Flame Retardant UL94-V0
- Dimension (W x H x D) (in mm): 22.5 X 83 X 100.5
- Weight (unpacked): 130 g
- Mounting: Base / DIN rail

## Certification

- Degree of Protection: IP 20 for Terminals, IP 40 for Enclosure

## EMI / EMC

- ESD: IEC 61000-4-2
- Radiated Susceptibility: IEC 61000-4-3
- Electrical Fast Transients on Supply: IEC 61000-4-4
- Electrical Fast Transients on I/O Signal: IEC 61000-4-4
- Surge on Supply: IEC 61000-4-5
- Surge on I/O Signal: IEC 61000-4-5
- Conducted Susceptibility: IEC 61000-4-6
- Voltage Dips & Interruptions (DC): IEC 61000-4-29
- Conducted Emission: CISPR 14-1
- Radiated Emission: CISPR 14-1

## Environmental

- Cold Heat: IEC 60068-2-1
- Dry Heat: IEC 60068-2-2
- Vibration: IEC 60068-2-6
- Repetitive Shock: IEC 60068-2-27
- Non-Repetitive Shock: IEC 60068-2-27
Supply
Input
Output
3 PORT
ISOLATION DIAGRAM
3,75kV AC (input, supply and output)

CONNECTION DIAGRAM

3 PORT
ISOLATION DIAGRAM
3,75kV AC (input, supply and output)

-terminal torque & capacity

DIP SWITCH MODE SELECTION

SIGNAL TRANSDUCER-SERIES 225
SELECTION OF INPUT & OUTPUT SIGNAL MODE

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<tr>
<th>Mode</th>
<th>Input Voltage / Input Current</th>
<th>Output Signal</th>
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<td></td>
<td>2SC3D11CC3</td>
<td>(0-10)V</td>
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<tr>
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<td>(0-10)V / (0-20)mA</td>
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MOUNTING DIMENSIONS (mm)

TERMINAL TORQUE & CAPACITY

- Ø 3.5 mm – 4.0 mm
- AWG 0.60 N.m (6 Lb.in)
- 1 x 4.0 mm² Solid/Stranded Wire
- 1 x 20 to 10