





Model Number EX682A40	DIFFERENTIAL DIN RAIL CHARGE AMPLIFIER		Revision: A ECN #: 42284										
Performance Sensitivity(+/-5 %) Input Range Low Frequency Response(+/-5 %) High Frequency Response(+/-5 %) Amplitude Linearity	ENGLISH 10 mV/pC +/-250 pC 5 Hz 10 kHz ≤ 1 %	SI 10 mV/pC +/-250 pC 5 Hz 10 kHz ≤ 1 %	OPTIONAL VERSIONS Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.										
Environmental Hazardous Area Approval Hazardous Area Approval Hazardous Area Approval Hazardous Area Approval Hazardous Area Approval Hazardous Area Approval Hazardous Area Approval Temperature Range(Operating) Temperature Response Relative Humidity(Non Condensing)	IECEx LCIE 130002X LCIE 13 ATEX 3031X Ex ia IIC T4 Ga LCIE 13 ATEX 1010X Ex nA IIC T4 Gc Class I Div 1 Groups A, B, C, D Class I Div 2 Groups A, B, C, D -40 to +176 °F ≤ 1 % <95 %	IECEx LCIE 130002X LCIE 13 ATEX 3031X Ex ia IIC T4 Ga LCIE 13 ATEX 1010X Ex nA IIC T4 Gc Class I Div 1 Groups A, B, C, D Class I Div 2 Groups A, B, C, D -40 to 80 °C ≤ 1 % <95 %	NOTES: [1] Typical value. [2] Tested using voltage source and input capacitor equal to the feedback capacitor, to simulate a charge output sensor. [3] See PCB Declaration of Conformance PS123 for details.										
Electrical Excitation Voltage Constant Current Excitation Output Voltage Output Bias Voltage Broadband Electrical Noise(1 to 10,000 Hz) Spectral Noise(1 Hz) Spectral Noise(10 Hz) Spectral Noise(100 Hz) Spectral Noise(1 kHz) Spectral Noise(10 kHz) Discharge Time Constant Resistance Source Capacitance Loading Output in Relation to Input	22 to 28 VDC 3.1 to 4.1 mA +/-2.5 Vpk 10 to 12 VDC 200 μV 50 μV/√Hz 15 μV/√Hz 5 μV/√Hz 2 μV/√Hz 2 μV/√Hz >0.25 sec >50,000 Ohm 0.0003 %/pF In Phase	22 to 28 VDC 3.1 to 4.1 mA +/-2.5 Vpk 10 to 12 VDC 200 μV 50 μV/√Hz 15 μV/√Hz 5 μV/√Hz 2 μV/√Hz 2 μV/√Hz >0.25 sec >50,000 Ohm 0.0003 %/pF In Phase											
Physical Electrical Connector(Input) Electrical Connector(Output) Weight Mounting Case Material	Terminal Strip Terminal Strip 5.1 oz DIN Rail Injected Molded Nylon	Terminal Strip Terminal Strip 145 gm DIN Rail Injected Molded Nylon	<table border="1"> <tr> <td>Entered: AP</td> <td>Engineer: gs</td> <td>Sales: BRS</td> <td>Approved: BAM</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 12/11/2013</td> <td>Date: 12/11/2013</td> <td>Date: 12/11/2013</td> <td>Date: 12/11/2013</td> <td>57012</td> </tr> </table>	Entered: AP	Engineer: gs	Sales: BRS	Approved: BAM	Spec Number:	Date: 12/11/2013	Date: 12/11/2013	Date: 12/11/2013	Date: 12/11/2013	57012
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Date: 12/11/2013	Date: 12/11/2013	Date: 12/11/2013	Date: 12/11/2013	57012									
   <p>All specifications are at room temperature unless otherwise specified. In the interest of constant product improvement, we reserve the right to change specifications without notice. ICP® is a registered trademark of PCB Group, Inc.</p>			 <p>3425 Walden Avenue, Depew, NY 14043</p> <p>Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com</p>										