Signal Transducer

- Input / Output configuration selected via DIP switch combinations
- Choice of 16 analog input-output configurations
- Provides 3-way galvanic isolation of 3.75kV
- Fast output Response Time (<100ms)
- Sleek 22.5mm wide



Cat. No.	2SC3D11CC3
Parameters	
Supply Voltage (⏚)	24 V DC
Supply Variation	-15% to + 15% (of ⏚)
Power Consumption (Max.)	4 VA
Device Characteristics	
Input Signal	0-10VDC, 2-10VDC, 0-20mA DC, 4-20mA DC
Input Impedance	V-Approx. 100 K Ohm, I-100 Ohm approx.
Output Signal	0-10VDC,2-10VDC (min. 1 kOhm load) 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	CE RoHS Compliant
Degree of Protection	IP 20 for Terminals, IP 40 for Enclosure

EMI / EMC		
ESD	IEC 61000-4-2	Ed. 2.0 (2008-12) Level II
Radiated Susceptibility	IEC 61000-4-3	Ed. 3.2 (2010-04) 10 V/M Level III
Electrical Fast Transients on Supply	IEC 61000-4-4	Ed. 3.0 (2012-04) Level III
Electrical Fast Transients on I/O Signal	IEC 61000-4-4	Ed. 3.0 (2012-04) Level II
Surge on Supply	IEC 61000-4-5	Ed. 3.0 (2014-05) Level III
Surge on I/O Signal	IEC 61000-4-5	Ed. 3.0 (2014-05) Level II
Conducted Susceptibility	IEC 61000-4-6	Ed. 4.0 (2013-10) 10 V Level III
Voltage Dips & Interruptions (DC)	IEC 61000-4-29	Ed. 1.0 (2000-08)
Conducted Emission	CISPR 14-1	Ed. 5.2 (2011-11) Class B
Radiated Emission	CISPR 14-1	Ed. 5.2 (2011-11) Class B

Environmental		
Cold Heat	IEC 60068-2-1	Ed. 6.0 (2007-03)
Dry Heat	IEC 60068-2-2	Ed. 5.0 (2007-07)
Vibration	IEC 60068-2-6	Ed. 7.0 (2007-12) 5g
Repetitive Shock	IEC 60068-2-27	Ed. 4.0 (2008-02) 40g, 6ms
Non-Repetitive Shock	IEC 60068-2-27	Ed. 4.0 (2008-02) 30g, 15ms

ORDERING INFORMATION

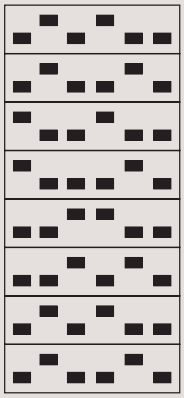
Cat. No.	Description
2SC3D11CC3	Signal Transducer, 24VDC, 1 Input & 1 Output, Voltage & Current, 3 Port Isolation, Base / DIN

Signal Transducer

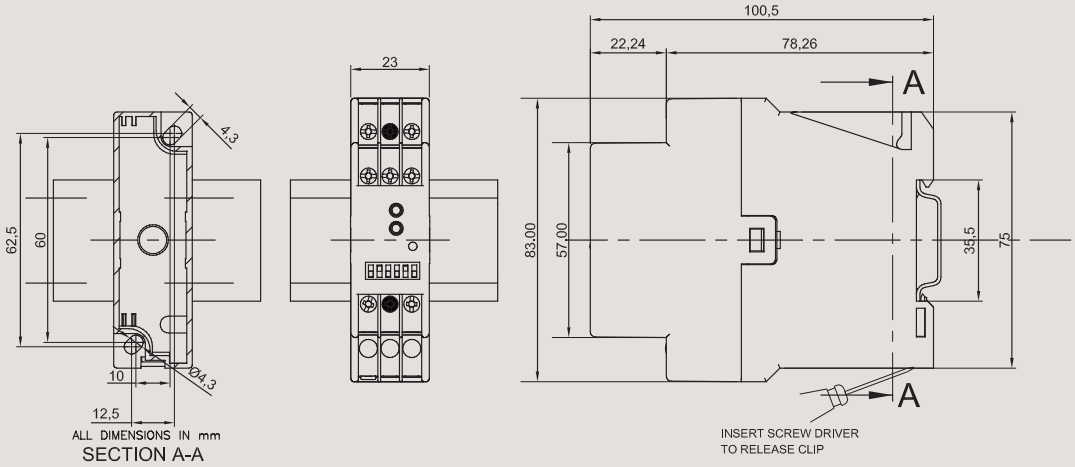


DIP SWITCH MODE SELECTION

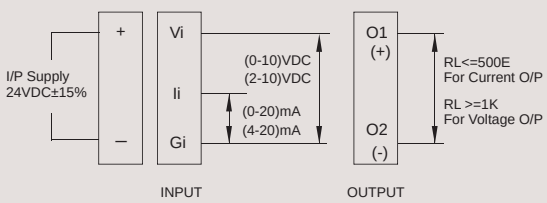
SIGNAL TRANSDUCER-SERIES 225
SELECTION OF INPUT & OUTPUT SIGNAL MODE

Mode		Input Voltage / Current (DC)	Output Signal
 1 2 3 4 5 6	– (0-10)V	(0-20)mA	(0-10)V
	– (0-10)V	(0-20)mA	(0-20)mA
	– (0-10)V	(0-20)mA	(2-10)V
	– (0-10)V	(0-20)mA	(4-20)mA
	– (2-10)V	(4-20)mA	(0-10)V
	– (2-10)V	(4-20)mA	(0-20)mA
	– (2-10)V	(4-20)mA	(2-10)V
	– (2-10)V	(4-20)mA	(4-20)mA

MOUNTING DIMENSIONS (mm)

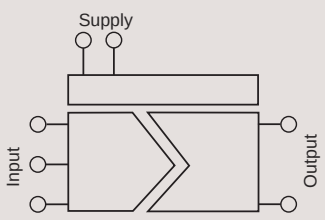


CONNECTION DIAGRAM



3 PORT ISOLATION DIAGRAM

3,75kV AC (input, supply and output)



TERMINAL TORQUE & CAPACITY

Ø3.5....4.0mm	0.6 N.m (6 Lb.in) Terminal screw - M3
	1 x 0.5...4 mm² Stranded Wire
AWG	1 x 22 to 10