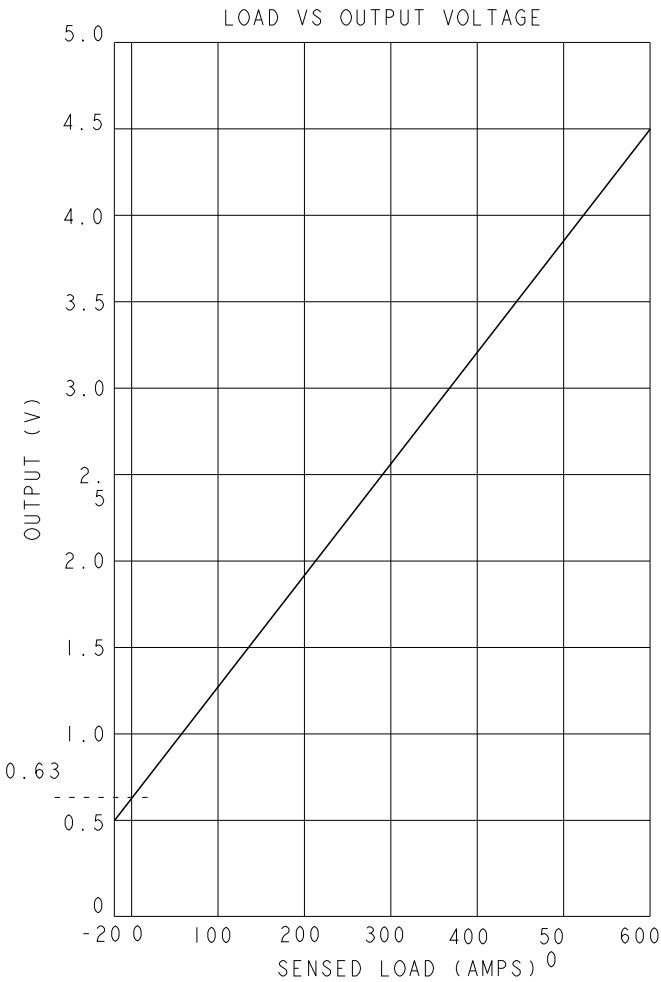
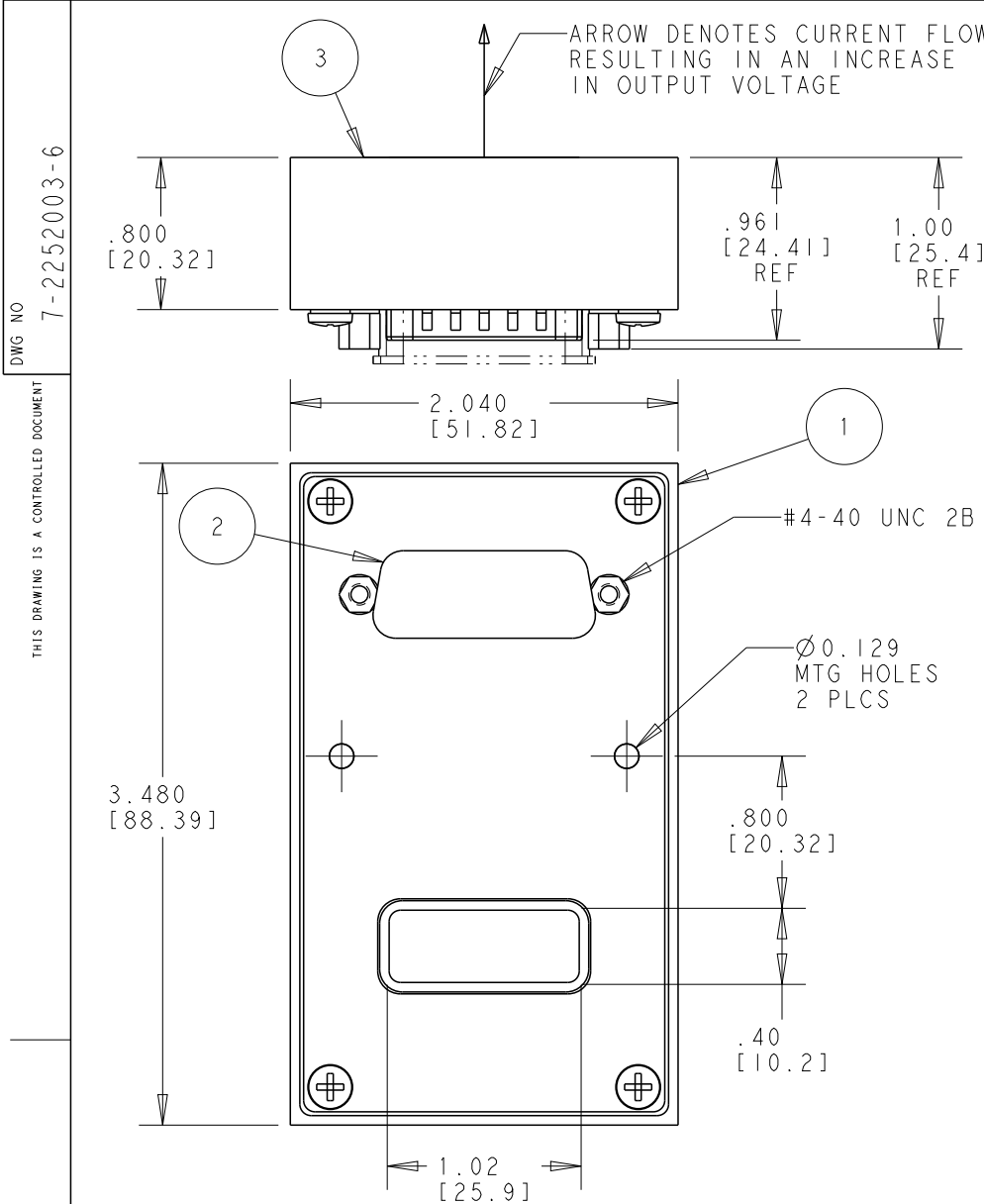




POWER SUPPLY:
SUPPLY VOLTAGE: 16 - 32 VDC
CURRENT SUPPLY AT 28 VDC: 100mA MAX (EXCLUDES RELAY COIL CURRENT)

ANALOG OUTPUT:
OUTPUT RANGE : 0.5VDC - 4.5VDC
SENSED LOAD: -20 AMPS (MIN) TO 600 AMPS (MAX)
ACCURACY: ±3.5% FULL SCALE
SENSITIVITY: 6.45 MILLIVOLT/AMP
OUTPUT TRANSFER FUNCTION:
 $V = (\text{SENSED LOAD} * \text{SENSITIVITY}) + 0.63$

EXTERNAL RELAY COIL CURRENT SPEC:
PICK UP CURRENT : 10 AMPS (MAX) FOR 200 mSECS
HOLD CURRENT : 0.75 AMPS (MAX)

OVERLOAD TRIP RESPONSE:

OVERLOAD TRIP TIMES		
PIN-CONFIGURABLE NOMINAL LOAD SETTINGS	MIN.	MAX.
	NO TRIP	NO TRIP
100% - 135% OF NOM LOAD	NO TRIP	NO TRIP
200% OF NOM LOAD	12 SEC	70 SEC
300% OF NOM LOAD	2.4 SEC	21 SEC
400% OF NOM LOAD	1 SEC	8 SEC
500% OF NOM LOAD	0.5 SEC	5.25 SEC
600% OF NOM LOAD	0.4 SEC	1.61 SEC
800% OF NOM LOAD	0.25 SEC	1.1 SEC
1000% OF NOM LOAD	0.22 SEC	0.9 SEC

REVERSE LOAD DETECTION:
REVERSE LOAD TRIP LEVEL: -1A TO -20A
TRIP RESPONSE TIME: 40 mSEC TO 450 mSEC

TRIP STATUS:
CURRENT SINK (MAX): 35 mA

OVERLOAD DETECTION STATUS:
CURRENT SINK (MAX): 35 mA

ENVIRONMENTAL/PHYSICAL CHARACTERISTICS
TEMPERATURE RANGE: -40° TO +85° C
WEIGHT: 200 GRAMS (MAX)
ALTITUDE: 50,000 FT.

MEETS DO-160G SPECIFICATION FOR SHOCK, VIBRATION, TEMPERATURE AND ALTITUDE

EMI:
MEETS DO-160G SPECIFICATION FOR POWER INPUT, VOLTAGE SPIKES, AF CONDUCTED SUSCEPTIBILITY, INDUCED SIGNAL SUSCEPTIBILITY, RF SUSCEPTIBILITY (RADIATED AND CONDUCTED), RF EMISSIONS, INDUCED LIGHTNING AND ESD

JURISDICTION: EXPORT ADMINISTRATION REGULATIONS
ECCN: EAR99
MARKING DATE: 10JUL2019
THIS DOCUMENT CONTAINS CONTROLLED TECHNICAL DATA SUBJECT TO THE EXPORT ADMINISTRATION REGULATIONS (EAR). DISCLOSURE TO NON-US PERSONS WITHOUT U.S. GOVERNMENT AUTHORIZATION IS PROHIBITED. VIOLATIONS OF THESE EXPORT LAWS AND REGULATIONS ARE SUBJECT TO CIVIL AND CRIMINAL PENALTIES.

3	I	16043-157	NAME PLATE			2252005-8	
2	I	53304-002	CAP-DUST SUB-D			4-1616927-9	
1	I	48374-090	PRIMARY ASSEMBLY			6-2252002-4	
FIND NO	QTY RECD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	DRAWING OR SPECIFICATION	FSCM NO	TE PART NO	MATERIAL OR NOTE

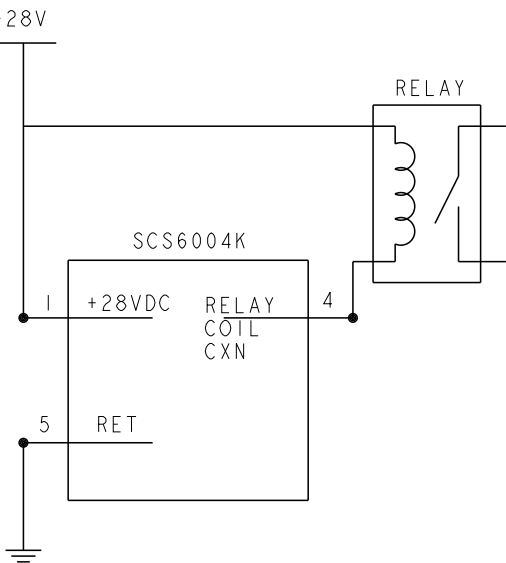


FIGURE 1- CONNECTION DIAGRAM BETWEEN SCS6004K AND EXTERNAL RELAY

CAGE CODE: 74063 Hartman Division 175 N. DIAMOND STREET MANSFIELD, OHIO 44902		DWN	18JAN19	MATERIAL	HEAT TREAT
DIMENSIONS: INCHES [mm]		RAJ	18JAN19		
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ± 2 PLC ±.02 3 PLC ±.005 4 PLC ±		CHK	18JAN19		
ANGLE ± 1°		APVD	18JAN19		
SURFACE TEXTURE 63		ACB		NAME SMART CURRENT SENSOR	
		SCALE NONE		SIZE A3	
		DRAWING NO 7-2252003-6		SHEET 1 OF 1	
				REV C	

15-PIN D-SUB PIN ASSIGNMENT		
PIN	FUNCTION	IMPLEMENTATION/DESCRIPTION
1	+28VDC	PRIMARY POWER, HIGH
2	RESET	CYCLE MOMENTARILY TO GND TO RELEASE FROM TRIP MODE. LEAVE OPEN (OR > 14 VOLTS) FOR NORMAL OPERATION.
3	REVERSE LOAD DETECTION DISABLE	CONNECT TO GND TO DISABLE REVERSE LOAD DETECTION FEATURE. LEAVE OPEN (OR > 14 VOLTS) TO ENABLE FEATURE.
4	RELAY COIL CONNECTION	CONNECT TO RELAY COIL. REFER TO FIGURE 1 FOR CONNECTION GUIDANCE.
5	RETURN	PRIMARY POWER, GND
6	400A LOAD SELECT	CONNECT TO GND FOR 400-AMP NOM LOAD; 7 = 8 = OPEN
7	300A LOAD SELECT	CONNECT TO GND FOR 300-AMP NOM LOAD; 6 = 8 = OPEN
8	200A LOAD SELECT	CONNECT TO GND FOR 200-AMP NOM LOAD; 6 = 7 = OPEN
NOTE: ONLY ONE LOAD SELECT PIN CAN BE WIRED UP IN SYSTEM INSTALLATION. THE OTHER TWO MUST REMAIN UN-CONNECTED.		
9	ANALOG OUTPUT	MONITOR UP TO 600 AMP LOAD. REFER TO LOAD VS OUTPUT VOLTAGE GRAPH.
10	TRIP STATUS	HIGH IMPEDANCE = NORMAL MODE 0 V = TRIP MODE
11	OVERLOAD DETECTION FEATURE STATUS	HIGH IMPEDANCE = OVERLOAD DETECTION FEATURE ENABLED 0 V = FEATURE DISABLED NOTE: TO DISABLE FEATURE, SET THE WIRED LOAD SELECT PIN TO OPEN.
12, 13, 14, 15	INTERNALLY CONNECTED TO GND	

C	ECO-19-010736, ADD ECCN	12JUL2019	RAG	RAG
B	REEASE TO PROD FROM REV A	14JAN2019	RAJ	RAJ
A	REMOVE PRELIMINARY	03DEC2018	RAG	RAG
LTR	REVISION RECORD	DATE	DWN	APVD