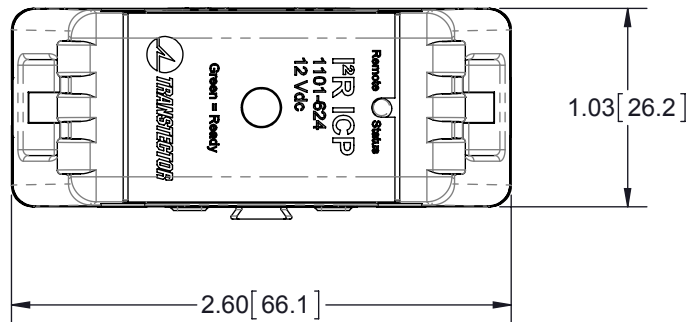
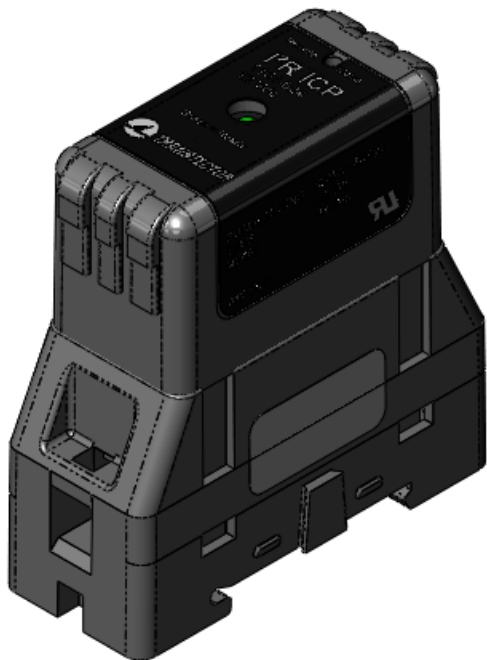
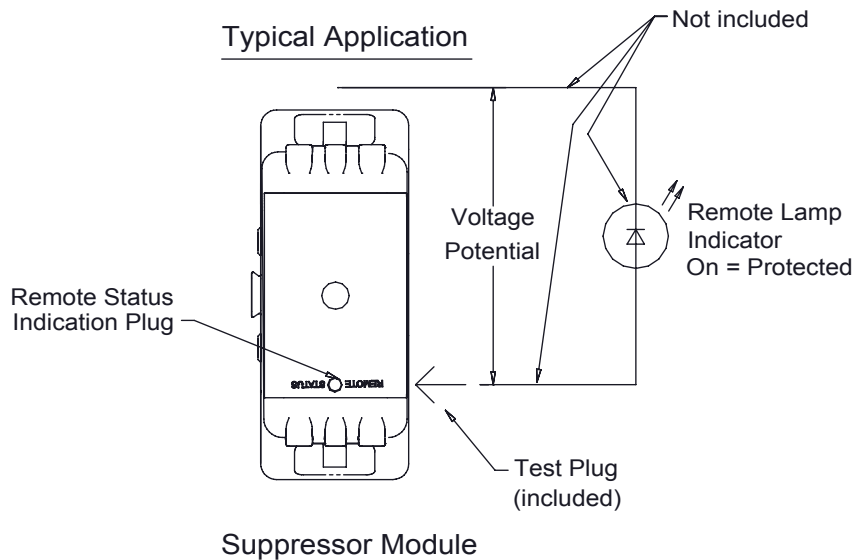


REVISIONS				
REV.	DESCRIPTION	ECN	DATE	APPROVED
A	PRODUCTION RELEASE		1/6/14	MPD



## MAXIMUM CHARACTERISTICS

**Application:**  
The I<sup>2</sup>R ICP 12VDC is ideal for protecting 12Vdc signaling and power lines. The device employs silicon avalanche diode technology to provide best in class low voltage surge protection. No other protection technology can truly provide suitable low voltage surge mitigation as close to the actual dc operating voltage. The device installs in parallel with the electrical circuit is not polarity sensitive. The device consists of a surge module which plugs into the wiring connection base. The base can be DIN rail mounted or easily panel mounted with a screw through the center of the base. An LED illuminates to show power applied and suppressor operational and includes a remote status test point to operate a remote indicator. The I<sup>2</sup>R ICP 12VDC is recognized to UL 497b and is Rohs compliant. RoHS exemption 7b from Annex III.

## Electrical Performance:

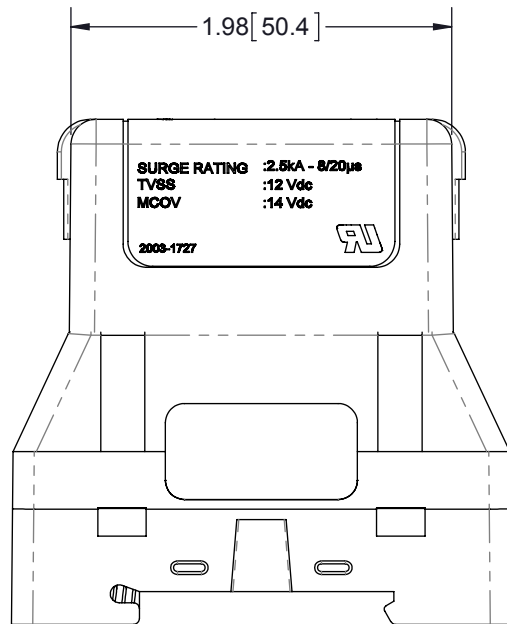
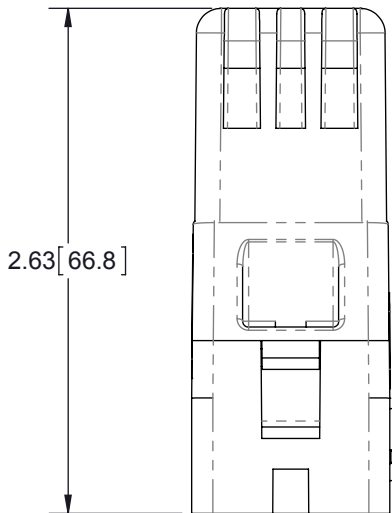
Operating Voltage: 12/14 Vdc maximum  
Configuration: 2 wire  
Input Connection: Screw-Term Block (4-14 AWG)  
Status Indicator: Green LED, On=Suppressor Operational,  
Off=Suppressor Not Operational or Power Not Applied  
Voltage Protection Levels:  
500A 8/20μs: 36 Vpeak  
2.5kA 8/20μs: 70 Vpeak  
300A 10/1000μs: 45 Vpeak  
Maximum Continuous Operating Voltage U<sub>c</sub>: 14 Vdc  
Suppression Element Used: Silicon Avalanche Diodes  
Suppression Element Response Time (off-to-full on): less than 5ns

## Mechanical:

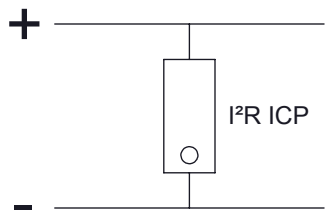
Mounting: The I<sup>2</sup>R ICP has two mounting options:  
35mm DIN Rail  
Screw mount  
Dimensions: 2.60" long, 1.03" wide and 2.63" tall

## Environmental:

Operating/Storage temperature: -40°C to +80°C  
Relative Humidity: 100%(non-condensing)



## INSTALLATION DIAGRAM



THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

CUSTOMER APPROVAL: \_\_\_\_\_ DATE: \_\_\_\_\_

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS  TOLERANCES: FRACTIONS=± 1/32 .XX=± .03 ANGLES=± 1 ° .XXX=± .005  MATERIAL NOTED  THIRD-ANGLE PROJECTION 		DRAWN HMB	DATE 1/3/14	  TITLE I2R ICP 12VDC SASD CUSTOMER SPECIFICATION		
		ENG APPD MPD	1/6/14			
		PRODUCT MGR MLH	1/13/14			
		MARKETING APPD LJ	1/14/14			
		PROJECT NO.		SIZE B	CAGE 61114	PART NUMBER 1101-624
		NOTICE: THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF TRANSECTOR SYSTEMS. ALL RIGHTS RESERVED.		SCALE 1:1	PROD CAT DCT	DOCUMENT NAME 1101-624-C
				SHEET 1		OF 1