THIS DRAWING HAS BEEN GENERATED AND IS MAINTAINED BY A CAD SYSTEM. CHANGES SHALL ONLY BE INCORPORATED AS DIRECTED BY THE DESIGN ACTIVITY.

REVISIONS						
LTR	DESCRIPTION	ECO NUM.	DATE	APPROVED		
Α	PRELIMINARY RELEASE	DD086	5/22/07	MLH		
В	SEC. 1 REMOVE RAIL YARD AND SWITCHING	6913	7/17/07	MLH		
С	ADD -W MODELS CHANGE PERFORMANCE VOLTAGE	7332	3/25/08	MPD		
D	ADD AC RATING TO MAX OPERATING VOLTAGE	7446	8/25/08	MPD		



UNLESS	DRAWN: MLH	DATE 5/22/07		Transtector Systems, Inc.				
OTHERWISE SPECIFIED DIM. IN INCHES	CHECKED: TC	5/26/07			10701 Airport Road, Hayden, ID 83835 800.882.9110 208.772.8515 www.transtector.com			
BEFORE PLATING	ENGR. APPD: SEH	6/26/07						01.00111
MATERIAL:	PROJ. APPD: MPD	6/26/07	SPECIFICATION DRI-24 pn 1101-869, 1101-869-W DRI-120 pn 1101-870, 1101-870-W					
NOTED	APPROVED:							
	NOTICE: THE INFORMATION AND DESIGN CONTAINED HEREIN IS THE PROPERTY OF TRANSTECTOR SYSTEMS. WHO RESERVES ALL RIGHTS THERETO		SIZE A	CAGE 30992		DRAWING NUMBER		REV D
			SCALE	= N/A			PAGE 1 OF 4	,

SURGE SUPPRESSOR: DRI-24 pn 1101-869, 1101-869-W DRI-120 pn 1101-870, 1101-870-W

1. GENERAL DESCRIPTION: The DRI (Rail Indicator) series of surge suppressors are designed to protect AC and DC data/signal circuits and provide positive status indication for all suppression components. This advancement in surge protection now allows a positive indication of the condition of the suppressor for continuous low voltage signal lines as well as intermittent circuits where power is not always applied. The surge suppressor is a high-speed, high-current solid state device designed to protect up to four low speed data, power signal, or two differential pair signals per unit. DRI products use only silicon avalanche suppression diodes (SASD) for surge protection. The indication circuit is externally powered to provide reliable suppressor status indication separate from the protected circuits. Each module (as depicted on page 1) connects into a WAGO 280 series base for mounting onto standard 35mm copper or aluminum DIN rail. Surge currents are shunted to ground through the earth ground connected DIN rail or separate wired ground. All terminations and wiring are connected into the WAGO cage clamp base with the DRI module snapping into base for trouble-free suppressor replacement. The suppressor module connects in parallel circuit configuration when in normal operation, and opens all four data lines for testing when the suppressor module is removed from its base. A visual LED indicator along with dry contact relay connections allow for visual indication of suppressor failure and remote monitoring.

2. PERFORMANCE REQUIREMENTS:

	Signal RateDC power to 30 Kb/sConfiguration4 (four) wires – pass through when module insertedInput ConnectionWire Cage Clamp (28-12 AWG)Protection ModesLine to Line, Line to GroundMaximum Continuous Operating VoltageDRI-24 Nominal24VDCMax 34VDCDRI-120 Nominal 120VAC, 170VDCMax 127VAC, 180VDCMaximum Continuous Operating Signal Current5 AmpIndicationWith indicating power applied green LED not illuminated if failedDry Contact RelayNO-C-NC≤ 125VAC≤ 3 AmpsPositions noted with power applied, suppressor operational≤ 30VDC≤ 3 AmpsStandby Power110-125VAC50/60 HZ1.2 Watt Max. draw
2.1	Testing: DRI 24 Ipk(to IEEE 10/1000us Long Wave)< 48VDC peak @ 100A peak Ipk(to IEEE 8/20us Combination Wave)< 110VDC peak @ 1000A peak
	Testing: DRI 120 Ipk(to IEEE 10/1000us Long Wave)<250VDC @ 85A Ipk(to IEEE 8/20us Combination Wave)<310VDC @ 1000A
	Response Time (Max)
3.	ENVIRONMENTAL:
	Operating Temperature: -40°C to +85°C Storage Temperature: -40°C to +85°C Relative Humidity: 99% (non-condensing)
4.	MECHANICAL/INSTALLATION:
	Enclosure dimensions:The suppressor is housed in a molded plastic enclosure that meets the format of WAGO 280 connection type. Weight:



NOTICE: THE INFORMATION AND DESIGN CONTAINED HEREIN IS THE PROPERTY OF TRANSTECTOR SYSTEMS. WHO RESERVES ALL RIGHTS THERETO.

A 30992

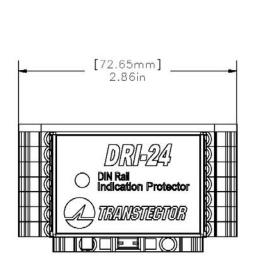
1400-613

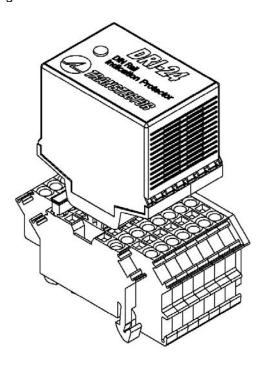
D

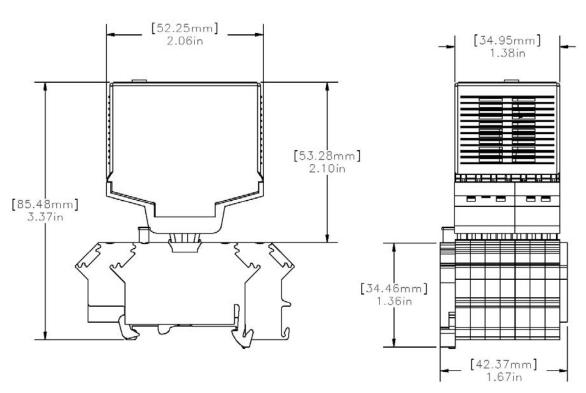
SCALE = NA

Page 2 OF 4

Mounting data: See diagram below.







[X.XX] = millimeters X.XX = inches

IBANSTECTOR*

NOTICE: THE INFORMATION AND DESIGN CONTAINED HEREIN IS THE PROPERTY OF TRANSTECTOR SYSTEMS. WHO RESERVES ALL RIGHTS THERETO. SIZE CAGE A 30992

1400-613

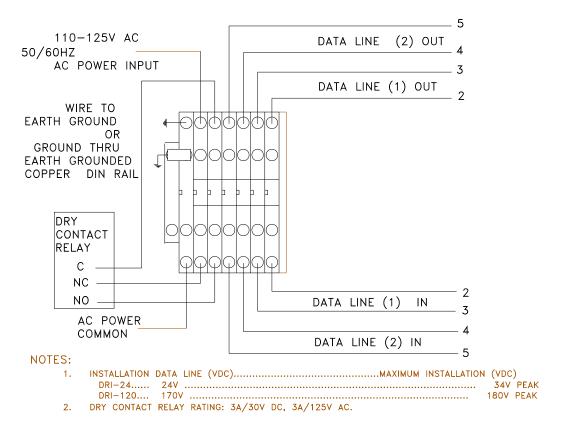
D

SCALE = NA

Page 3 OF 4

5. Wiring data: All wiring connections are made to the WAGO cage clamp terminal for use with 28AWG-12AWG solid or multi-strand wire. The suppressor terminal block assembly is provided with a ground block that if mounted to a copper or aluminum 35mm DIN Rail will ground the suppressor when bonded to the best ground (Earth) connection available. If using steel DIN rail remove the ground block and use a minimum 14 AWG stranded wire connected between the best ground available and the terminal block grounding input.

The DRI units connect into the WAGO 280 base via terminal connections as depicted below.





NOTICE: THE INFORMATION AND DESIGN CONTAINED HEREIN IS THE PROPERTY OF TRANSTECTOR SYSTEMS. WHO RESERVES ALL RIGHTS THERETO. A 30992

1400-613

D

Page 4 OF 4

SCALE = NA