

Three-stage DIN Rail Surge Protector

HESP4DR

B+B SMARTWORX

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PRODUCT FEATURES

- Three stages of protection on every data line
 - 1) Gas discharge tube
 - 2) Series resistor
 - 3) Transient voltage suppressor
- Protected signal ground connection
- Rugged terminal block connections
- Dedicated chassis ground lug
- Wide operating Temperature
- NEMA TS2

Model HESP4DR protects against lightning strikes, power surges, and other types of voltage disturbances with three stages of protection for each line: a gas discharge tube followed by a series resistor and finally a Transient Voltage Suppressor (TVS). Five RS-422/485 signals on terminal blocks are supported with a clamping voltage of 6.8 Volts.

The surge protector is housed in a rugged DIN rail mount case with a protected signal ground connection and dedicated chassis ground lug. In order to work properly, it is important to have a good connection between the #10 grounding screw and a solid earth ground.

ORDERING INFORMATION

MODEL NUMBER	INTERFACE	LINES PROTECTED	MOUNTING
HESP4DR	RS-422/485	(5) RS-422/485	DIN Rail Mount

ACCESSORIES

CU15B - Copper Grounding Strap



IN THE FIELD

Parking Lot Security

Industry: Transportation – Intelligent Parking
Product: High Energy Surge Protector

Learn more about surge suppression & isolation

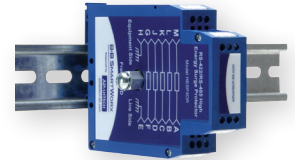
www.advantech-bb.com/TechLibrary

- "Isolation: Your Best Investment for Reliability"
- "Dataline Isolation Theory"
- "Dataline Surge Protection"

All product specifications are subject to change without notice.
HESP4DR_1317ds

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SPECIFICATIONS

SERIAL TECHNOLOGY	
Connectors, line	5-position terminal blocks
Connectors, equipment	5-position terminal blocks
SURGE SUPPRESSION	
Clamping Voltage - stage 1	72 VDC, minimum 108 VDC, maximum
Series Resistance - stage 2	2.7 Ohms
Clamping Voltage - stage 3	6.45 VDC, minimum 7.14 VDC, maximum
Clamping Time	Less than 5×10^{-9} seconds
MECHANICAL	
Dimensions	3.55 x 7.88 x 10.53 cm (1.4 x 3.1 x 4.2 in)
Installation	DIN rail mount
Weight	0.114 kg (4.02 oz)
MTBF	862813 hours
MTBF Calc. Method	MIL 217F, Parts Count Reliability Prediction Method

ENVIRONMENTAL	
Operating Temperature	-40 to 80 °C (-40 to 176 °F)
Storage Temperature	-40 to 85 °C (-40 to 185 °F)
Operating Humidity	0 to 95% Non-condensing
APPROVALS / CERTIFICATIONS - HESP4DR	
CE, NEMA TS2	
2011/65/EU - Reduction of Hazardous Substance Directive	
2012/19/EU - Waste Electrical and Electronic Equipment (WEEE)	

MECHANICAL DIAGRAM

