

# SIP

TM

## Series

**Ideal For  
Subminiature D  
and Centronics  
Communication  
Ports**

## DATA LINE SURGE PROTECTION

The SIP Series of Subminiature D interface protectors will ensure the reliable operation of parallel and serial devices such as printers and external modems, point-of-sale terminals, mainframes, dumb terminals and most other devices using subminiature D or Centronics connectors, which are sensitive to destructive transient energies. Standard applications include Ethernet, Token Ring, RS232, RS422 and LAN/WAN interfaces. Special applications can be accommodated through our Custom Products Group.

### SIPs OFFER

- State-of-the-art, avalanche diode technology
- Compact in-line installation
- High speed, high energy handling capability
- Low shunt capacitance to reduce signal loss

### YOU RECEIVE

- Affordable, superior, equipment protection
- Improved reliability and maximized system up-time
- Protection at the interface card
- Adaptability to most industry applications

Transient surges can enter electronic equipment through any pathway provided and damage

expensive communications hardware. If a facility has a reliable AC power protection system in place, transient surge energies can still be generated within a building by sources such as inductive load switching, ground loop currents, lightning and electrostatic discharge.

SIP Series protectors combine compact enclosures with extremely fast response times of less than 5 nanoseconds. They are specifically designed to give added security to electronic devices sensitive to voltage rises or ground loop energies and have been particularly effective in areas prone to lightning activity.

Standard Centronics and Subminiature D (9, 15, & 25 pin) interface connectors are available in configurations protecting all pins or specific pins as required.

All these features make the SIP protectors the most cost effective and versatile devices of their kind available today.

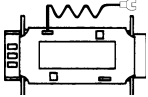
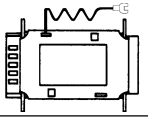
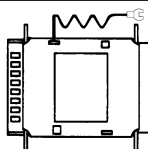
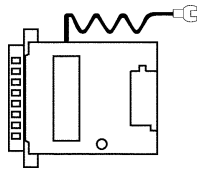
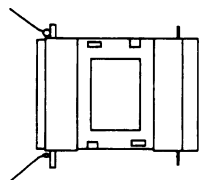
[www.cylix.com](http://www.cylix.com)



MADE IN THE USA



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	<b>ELECTRICAL SPECIFICATIONS (All specifications are subject to change without notice)</b>				
	ETHERNET	RS422	PARALLEL	RS232	TOKEN RING
STD. CLAMP VOLTAGE	7.5 VOLTS	7.5 VOLTS	7.5 VOLTS	18 VOLTS	18 VOLTS
PEAK PULSE CURRENT 10/1000 us s.c. wave form @Vcl	132 AMPS	132 AMPS	132 AMPS	60 AMPS	60 AMPS
RESPONSE TIME	----- LESS THAN 5 NANoseconds -----				
MAXIMUM SHUNT CAPACITANCE	<30pF	<30pF	<30pF	<30pF	<30pF
DB 9 SERIES	PINS PROTECTED	SYSTEM APPLICATION AND MODEL NUMBER			
	PROTECTS ALL	RS422/RS423/RS485	RS232	TOKEN RING	
		DB 9-RS422	DB 9-RS232	DB 9-18VLC	
DB 15 SERIES	PINS PROTECTED	SYSTEM APPLICATION AND MODEL NUMBER			
	PROTECTS ALL 15 PINS * UNLESS SPECIFIED	RS422/RS423/RS485	RS232	ETHERNET	
		DB 15-RS422	DB 15-RS232	DB 15-EN * PROTECTS IEEE 802.3 PINS AUI	
DB 25 SERIES	STANDARD PIN CONFIGURATIONS	SYSTEM APPLICATION AND MODEL NUMBER			
	25 WIRE ALL 25 PINS PROTECTED	RS422/RS423/RS485/RS530	RS232	PARALLEL	
	4 WIRE, PINS (1), 2, 3, 7, 20	X	425-RS232	X	
	8 WIRE PINS (1),2,3,4,5,6,7,8,& 20	X	825-RS232	X	
MODULAR ADAPTOR	STANDARD PIN CONFIGURATIONS	RS422/RS423/RS485	RS232		
	8 WIRE	DB25M/RJ45 - E	DB25M/RJ45 - T		
	8 WIRE	DB25F/RJ45 - E	DB25F/RJ45 - T		
	6 WIRE	DB25M/RJ11 - E	DB25M/RJ11 - T		
	6 WIRE	DB25F/RJ11 - E	DB25F/RJ11 - T		
CENTRONICS PARALLEL	MODEL NUMBER				
	C-36 M/F				

(SPECIAL CONFIGURATIONS ARE AVAILABLE, CONTACT YOUR SUPPLIER)

## ORDERING INFORMATION

To order a SIP, choose the connector type depicted above that accommodates the system application to be protected.

NOTE: Special units can be supplied for any voltage between 7.5 V and 240 V. The following information must be specified when ordering special units:

- Connector type and pin assignment (ex., DB9 pins (1),2,3,4 & 7)  
( ) = pin designated as chassis or earth ground
- System application (ex., RS232)

## INSTALLATION

To install, insert the protector in series between the incoming communication lines and the I/O port of the equipment to be protected. The protector ground wire must be connected to the metal chassis of the equipment being protected. Units should be installed at both ends of the data cable for the most effective protection.

## CAUTION!

Ground wire must be grounded directly to the metal chassis of the equipment being protected. The equipment chassis must be connected to earth through a properly grounded AC power receptacle.

## CYLIX CIRCLE OF PROTECTION WARRANTY

The Cylix Corporation offers our "Circle of Protection" Warranty which includes a \$25,000 Connected Equipment Guarantee, 5 Year Replacement Program and a Limited Lifetime Warranty. This warranty applies only to serialized products registered with The Cylix Corporation and is subject to certain disclaimers and limitations. For a complete warranty statement, please contact The Cylix Corporation.