

Solid State Sensors**Absolute Maximum Ratings****ABSOLUTE MAXIMUM RATINGS —
103SR**

	4.5 to 5.5VDC	6 to 24VDC	4.5 to 24VDC
Supply Voltage (Vs)	-1.2 to +10VDC	-1.2 to +24VDC	-1.0 to +25VDC
Voltage Externally Applied to Output (VDC)	Sink/OFF only	+10 max.	+25 max.
	Sink/ON or OFF	-0.5 min.	-0.5 min.
	Source	+6.5 max. (ON or OFF)	+6.5 max. (OFF only) —
	Source/ON only	-0.5 min.	(Vs +4) —
Output Current (mA)	Sink	20	20
	Source	40	20
Temperature	-40° to +100°C	-40° to +100°C	-40° to 100°C
NOTE: Some SR sensors have wire insulation that can only withstand 85°C. Please contact the 800 number.	(-40° to +212°F)	(-40° to +212°F)	(-40° to +212°F)
Magnetic Flux	No limit. Circuit cannot be damaged by magnetic overdrive.		

**ABSOLUTE MAXIMUM RATINGS —
SS41/SS11/VX**

	4.5 to 24VDC	
Supply Voltage (Vs)	-24 to +28VDC	
Voltage Externally Applied to Output (VDC)	OFF only	+28 max.
	ON or OFF	-0.5 min.
Output Current (mA)	20	
Temperature range, SS41	-55° to +170°C (-67° to +338°F)	
Temperature range, SS11	-40° to +150°C (-40° to +302°F)	
Temperature range, VX	-40° to +70°C (-40° to +158°F)	
Magnetic Flux	No limit. Circuit cannot be damaged by magnetic overdrive.	

**ABSOLUTE MAXIMUM RATINGS —
2SSP**

	4.5 to 5.5VDC	6 to 24VDC
Supply Voltage (Vs)	-1.2 to +7VDC	-1.2 to +24VDC
Voltage Externally Applied to Output	+20VDC max. (OFF only)	+24VDC max. (OFF only)
	-0.5VDC min. (ON or OFF)	-0.5VDC min. (ON or OFF)
Output Current	20mA	20mA
Temperature	-40° to +150°C	-40° to +150°C
	(-40° to +302°F)	(-40° to +302°F)
Magnetic Flux	No limit. Circuit cannot be damaged by magnetic overdrive.	

**ABSOLUTE MAXIMUM RATINGS —
SS400**

	3.8 to 30VDC	
Supply Voltage	-0.5 to +30VDC	
Voltage Externally Applied to Output	+30VDC max. (OFF condition only)	
	-0.5VDC min. (OFF or ON condition)	
Output ON Current	50mA maximum	
Temperature range	Operating	-55 to +160°C (-67 to +320°F)
	Storage	-65 to +160°C (-85 to +320°F)
Magnetic Flux	No limit. Circuit cannot be damaged by magnetic overdrive.	

NOTICE

Absolute maximum ratings are the extreme limits the device will withstand without damage to the device. However, the electrical and mechanical characteristics are not guaranteed as the maximum limits (above recommended operating conditions) are approached, nor will the device necessarily operate at absolute maximum ratings.

Solid State Sensors**Absolute Maximum Ratings**

ABSOLUTE MAXIMUM RATINGS — SR3/SR4		4.5 to 24VDC	6.0 to 24VDC
Supply Voltage (Vs)		-0.5 to +25VDC	-1.2 to +24VDC
Voltage Externally Applied to Output (VDC)	OFF only	+25 max.	+24max.
	ON or OFF	-0.5 min.	-0.5 min.
Output Current (mA)		20	20
Temperature	Storage/	-40° to +85°C (-40° to +185°F)	-40° to +85°C (-40° to +185°F)
	Operating		
Magnetic Flux		No limit. Circuit cannot be damaged by magnetic overdrive.	

ABSOLUTE MAXIMUM RATINGS — SS9		
Supply Voltage (Vs)		-0.5 to +14VDC
Output Current (mA)		10
Temperature	Storage	-55° to +150°C (-67° to +302°F)
	Operating	-40° to +150°C (-40° to +302°F)
Magnetic Flux		No limit. Circuit cannot be damaged by magnetic overdrive.

ABSOLUTE MAXIMUM RATINGS — 2AV		
Supply Voltage		-40 to +30VDC
Voltage externally applied to output	+40 VDC max. (OFF condition only)	
	-0.8 VDC min. (OFF or ON condition)	
Output ON current		40 mA for 5 minutes max.
Temperature range		-40 to +160°C (-40 to +320°F) for 2 hours max.
Magnetic flux		No limit. Circuit cannot be damaged by magnetic overdrive.

ABSOLUTE MAXIMUM RATINGS — 4AV		4.5 to 5.5VDC	6 to 16VDC
Supply Voltage		-9.5 to +7.0VDC	-1.2 to +20VDC
Voltage Externally Applied to Output	OFF only	+15VDC max.	+20VDC max.
	ON or OFF	-0.5VDC min.	-0.5VDC min.
Load on Output, Continuous		10 mA per output	20 mA per output
Temperature		-40° to +125°C (-40° to +257°F)	-40° to +125°C (-40° to +257°F)

ABSOLUTE MAXIMUM RATINGS — SS495		
Supply Voltage (Vs)		-0.5 to +11VDC
Output current		10 mA
Operating temperature		-40 to +150°C (-40 to +302°F)
Storage temperature		-55 to +165°C (-67 to +329°F)
Magnetic flux		No limit. Circuit cannot be damaged by magnetic overdrive.

ABSOLUTE MAXIMUM RATINGS — SS100		
Supply Voltage		-1 to +30VDC
Voltage externally applied to output	+30VDC max. (OFF condition only)	
	-0.5VDC min. (OFF or ON condition)	
Output ON current		50 mA max.
Operating temperature		-40 to +150°C (-40 to +302°F)
Storage temperature		-55 to +150°C (-67 to +302°F)
Magnetic flux		No limit. Circuit cannot be damaged by magnetic overdrive.

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