

INSTALLATION CRITERIA FOR HARDWIRED PARALLEL-TYPE SUPPRESSION SYSTEMS

- 1] Intermatic recommends that TVSS units be installed as close to the panel being protected as physically possible since shorter wire lengths will provide better performance.
- 2] Larger wire gauges and greater numbers of strands in the wire will provide better performance by reducing the impedance of the wire leads.
- 3] Conductors should be as short as possible, with bends as close to 3" radius as possible.
- 4] Eliminate all gaps between conductors. Where possible, conductors should be twisted up to 1¹/₂ turns per lineal foot to lessen mutual inductance and improve suppressor performance.
- 5] The following breaker sizes are recommended depending on the size of wire selected for installation.

<u>WIRE SIZE</u>	<u>BREAKER SIZE</u>	<u>WIRE SIZE</u>	<u>BREAKER SIZE</u>
# 14 AWG	15 AMP	# 12 AWG	20 AMP
# 10 AWG	30 AMP	# 8 AWG	40 AMP
# 6 AWG	50 AMP	# 4 AWG	60 AMP
# 2 AWG	80 AMP	# 1 AWG	100 AMP

<u>PRODUCT SERIES</u>	<u>WIRE SIZES ACCEPTED</u>	<u>RECOMMENDED WIRE SIZE</u>	<u>MINIMUM BREAKER SIZE</u>
IG1240RC	PREWIRED	30" OF #14 STRANDED	15 OR 20 AMPERE
IG3240RC	PREWIRED	30" OF #14 STRANDED	15 OR 20 AMPERE
IG-LH SERIES	PREWIRED	30" OF #10 STRANDED	30 AMPERE
IG-EH SERIES	PREWIRED	30" OF #10 STRANDED	30 AMPERE
PG1000 SERIES	PREWIRED	30" OF #10 STRANDED	30 AMPERE
PG1500 SERIES	PREWIRED	30" OF #10 STRANDED	30 AMPERE
PG20 SERIES	PREWIRED	30" OF #10 STRANDED	30 AMPERE
PG40 SERIES	PREWIRED	30" OF #10 STRANDED	30 AMPERE
PG60 SERIES	10 TO 2 AWG	10 AWG MINIMUM	30 AMPERE
PG80 SERIES	10 TO 2 AWG	8 AWG MINIMUM	40 AMPERE
PG100 SERIES	10 TO 2 AWG	6 AWG MINIMUM	50 AMPERE
PG2000 SERIES	PREWIRED	40" OF #10 STRANDED	30 AMPERE
PG2500 SERIES	PREWIRED	40" OF #10 STRANDED	30 AMPERE
PG3000 SERIES	10 TO 2 AWG	10 AWG MINIMUM	30 AMPERE
PG3500 SERIES	10 TO 2 AWG	8 AWG MINIMUM	40 AMPERE
PG4000 SERIES	10 TO 2 AWG	8 AWG MINIMUM	40 AMPERE
PG4500 SERIES	10 TO 2 AWG	6 AWG MINIMUM	50 AMPERE
PG5000 SERIES	10 TO 2 AWG	4 AWG MINIMUM	60 AMPERE
UG28 SERIES	12 TO 10 AWG	10 AWG MINIMUM	30 AMPERE
UG30 SERIES	12 TO 10 AWG	10 AWG MINIMUM	30 AMPERE
UG40 SERIES	10 TO 6 AWG	8 AWG MINIMUM	40 AMPERE
SG160K SERIES	10 TO 1/0	8 AWG MINIMUM	40 AMPERE
SG240K SERIES	10 TO 1/0	6 AWG MINIMUM	50 AMPERE
SG320K SERIES	10 TO 1/0	4 AWG MINIMUM	60 AMPERE

Should you have any questions regarding your particular installation, contact Intermatic at 800-391-4555.



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