

Switch Specifications

Specifications (continued)

Expected life for SCXI-1160/1161	
Mechanical	10 ⁸ operations at 2 A, 30 VDC
Electrical	10 ⁹ operations at 2 A, 250 V _{rms}

Physical

Dimensions	3.0 by 17.2 by 20.3 cm (1.2 by 6.8 by 8.0 in.)
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Environment

Operating temperature	0 to 50 °C
Operating temperature	-20 to 70 °C
Relative humidity	5 to 90% noncondensing

PXI-2565

Input Characteristics

Number of relays	16 SPST
Common-mode voltage	
Channel-to-channel	250 V _{rms} , 250 VDC
Channel-to-ground	250 V _{rms} , 250 VDC
Maximum switching voltage	
AC	250 V _{rms}
DC	125 VDC
Maximum switching capacity per channel	
30 VDC (resistive load)	5 A
250 VAC (resistive load)	7 A
Maximum switching power per channel	1750 VA, 150 W
Maximum combined channel current	80 A
Channel on resistance	30 mΩ
Contact material	Gold-flash over silver alloy

Dynamic Characteristics

Relay operate time (20 °C)	5 ms typical, 10 ms maximum
Relay release time (20 °C)	4 ms typical, 10 ms maximum
Maximum switching rate	5 operations/s per channel

Expected life	
Mechanical (3 operations/s)	5x10 ⁷ operations
Electrical at maximum	
switching capacity	10 ⁶ operations (exceeding maximum switching capacity decreases electrical life)
PXI bus interface	Slave

PXI Trigger Bus

Trigger lines	8
Star trigger	1

Power Requirement

+5 VDC	350 mA (all relays open) 1.4 A (all relays closed)
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Physical

Dimensions	10x16 cm (3.9 x 6.3 in.) 2 slots wide
I/O connector	16x2 minicombicon header
I/O mating connector	Two 16x1 minicombicon connectors

Environment

Operating temperature	0 to 50 °C
Storage temperature	-20 to 70 °C
Relative humidity	5 to 85% noncondensing

Shock and Vibration

Functional shock	MIL-T-28800E Class3 (30 g half-sine shock pulse) also meets IEC 60068-2-27
Random vibration	MIL-T-28800E, MIL-STD-810E Category 1
Operational	5 to 500 Hz, 0.3 g _{rms}
Nonoperational	5 to 500 Hz, 2.4 g _{rms}