Application Guide
Keypad/Push Buttons

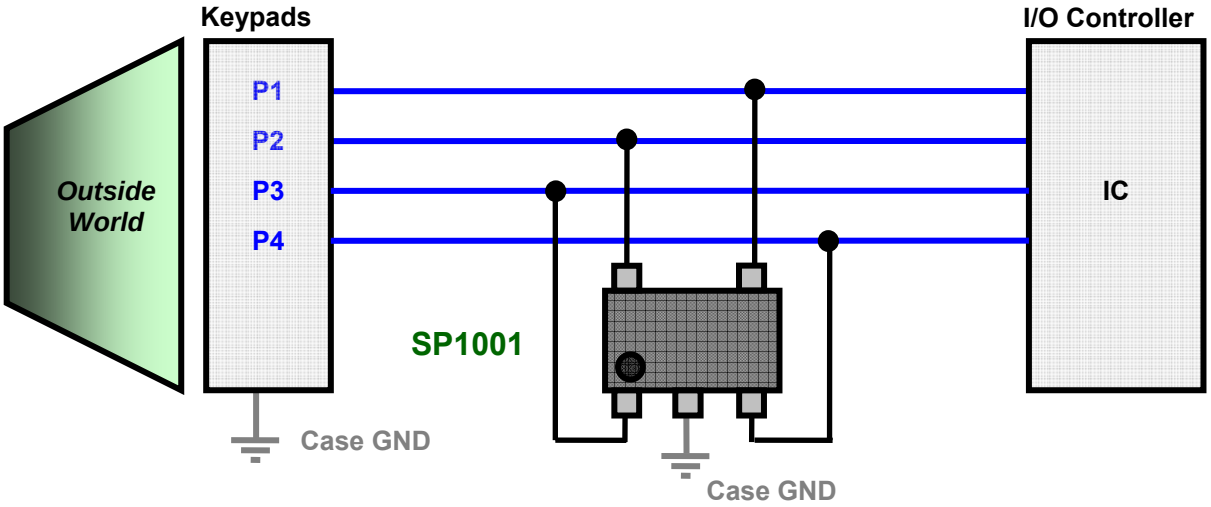
Considerations:

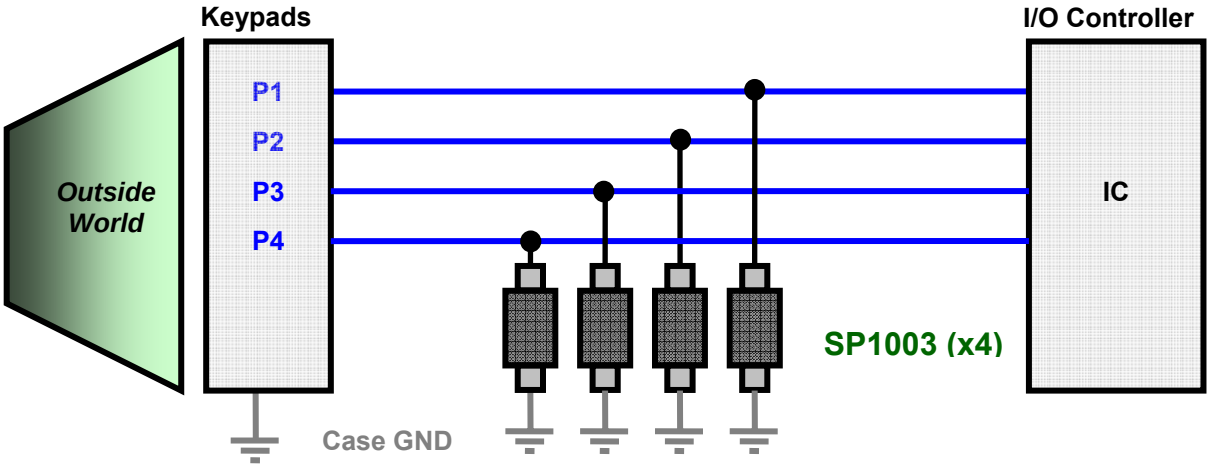
- Keypads and push buttons on electronic devices are particularly susceptible to ESD due to constant human interaction
  → Most are DC switches that operate at less than 5V, and for most applications capacitance will not be a concern

- The number of ports will vary with the particular application, but as an example, 4 data lines are shown below (i.e.Px)

- For space constrained applications the SP1003 may be considered as the SOD723 is an equivalent 0402 footprint

Application Schematics:





Recommended SPA Devices:

Ordering Number	ESD Level (Contact)	Lightning (t_P=8/20µs)	I/O Capacitance	# of Channels	V_{RWM}	Packaging
SP1001-04XTG	±8kV	2A	8pF	4	6V	SOT553
SP1011-04UTG	±15kV	2A	7pF	4	6V	uDFN-6 (1.25x1.0mm)
SP1003-01DTG	±25kV	7A	17pF	1	6V	SOD723