

**Access control systems for use in security applications en50133-1 : 1997 + Ammendment 1
 IMMUNITY STANDARD FOR ALARM PRODUCS EN50130-4 : 1995 + Amendments 1 and 2**

IMMUNITY EN50130-4 : 1995 + Amendments 1 and 2					
Item	Port	Phenomenon	Basic Standard	Test Value	Notes
1	Enclosure	Electrostatic discharge (ESD) EM Radiated Field	EN61000-4-2 EN61000-4-3	2, 4, 6 kV / contact 2, 4, 8 kV / air (10 discharges +ve & -ve) 80 MHz - 2.0 GHz 80% 1 KHz AM 10V/m 80 MHz - 2.0 GHz 1Hz PM (0.5s ON : 0.5s OFF) 10V/m	B A A
		Magnetic Field	EN61000-4-11	30 A/m	A
2	AC Power	Burst Surge	EN61000-4-4 EN61000-4-5	2.0 kV 0.5 kV, 1.0 kV, 2.0 kV Line to Earth 0.5 kV, 1.0 kV Line to Line	B B B
		Conducted RF	EN61000-4-6	150 kHz - 100 MHz 10 V rms 1 kHz 80% AM modulation 150 kHz - 100 MHz 10 V rms 1Hz PM (0.5s ON : 0.5s OFF)	A A
		Voltage Dips	EN61000-4-11	30% for 10 ms, 20 ms, 100 ms, 200 ms / 60% for 10 ms, 20 ms, 100 ms, 200 ms 100% for 10ms, 20 ms, 100 ms	B B
3	DC Power	Burst Surge	EN61000-4-4 EN61000-4-5	1.0 kV (ports > 3m) 0.5 kV, 1.0 kV Line to Earth (> 30 m long)	B B
		Conducted RF	EN61000-4-6	150 kHz - 100 MHz 10 V rms 1 kHz 80% AM modulation 150 kHz - 100 MHz 10 V rms 1Hz PM (0.5s ON : 0.5s OFF)	A A
4	I/O Signal / Control	Burst Surge Conducted RF	EN61000-4-4 EN61000-4-5 EN61000-4-6	1.0 kV (ports > 3m) - Capacitive Clamp 0.5 kV, 1.0 kV Line to Earth (ports > 30m) 150 kHz - 100 MHz 10 V rms 1 kHz 80% AM modulation 150 kHz - 100 MHz 10 V rms 1Hz PM (0.5s ON : 0.5s OFF)	A A A A