

Intrusion Detector Reference Chart



Family	Long-Range Curtain		Long-Range Enhanced Curtain			Medium-Range Curtain		Medium-Range Directional Curtain		Volumetric Coverage		Volumetric Long-Range Coverage		Static												
Detector	IR 454	IR 464	IR 414	IR 423	IR 425	IR 453	IR 463	IR 473	IR 483	IR 457	IR 467	IR 456	IR 466	DT 272												
Side View																										
Top View																										
Optical																										
Nominal Range (Coverage)	120 m x 2.7 m (400 ft x 9 ft)		150 m x 3.3 m (500 ft x 11 ft)		150 m x 3.6 m (500 ft x 12 ft)		150 m, 10° (500 ft, 10°)		50 m x 3.3 m (165 ft x 11 ft)		60 m x 3.9 m (200 ft x 13 ft)		50 m x 3.6 m (165 ft x 12 ft)		60 m x 4.2 m (200 ft x 14 ft)		21 m x 24 m (70 ft x 80 ft)		27 m x 30 m (90 ft x 100 ft)		80 m x 20 m (260 ft x 65 ft)		80 m x 20 m (260 ft x 65 ft)		12 m (40 ft) 18° cone	
Optics	Precision Mirror Glass		Precision Mirror Glass			Precision Mirror Glass		Segmented Precision Mirror		Segmented Precision Mirror		Segmented Precision Mirror		Precision Mirror Glass		Precision Mirror Glass		Fresnel / Sonic								
Window	Plastic, IR transmissive		Silicon Wafer		Silicon Wafer			Plastic, IR transmissive		Silicon Wafer		Plastic, IR transmissive		Silicon Wafer		Plastic, IR transmissive		Silicon Wafer		Plastic, IR transmissive		Plastic, IR transmissive				
Mechanical																										
Enclosure	Heavy Duty Plastic		Double Housing			Heavy Duty Plastic		Heavy Duty Plastic		Heavy Duty Plastic		Heavy Duty Plastic		Heavy Duty Plastic		Heavy Duty Plastic		Alum. anodized								
Weight	0.9 kg (2 lbs) including mounting bracket		1.25 kg (2.8 lbs)		1.5 kg (3.3 lbs)			0.9 kg (2 lbs) including mounting bracket		0.9 kg (2 lbs) including mounting bracket		0.9 kg (2 lbs) including mounting bracket		0.9 kg (2 lbs) including mounting bracket		0.9 kg (2 lbs) including mounting bracket		1.1 kg (2.4 lbs) incl. bracket								
Mounting Height	2.5 to 4 m (8 to 13 ft)		2.5 to 4 m (8 to 13 ft)			2.5 to 4 m (8 to 13 ft)		2.5 to 4 m (8 to 13 ft)		2.5 to 4 m (8 to 13 ft)		2.5 to 4 m (8 to 13 ft)		2.5 to 8 m (5 to 13 ft)		2.5 to 8 m (5 to 13 ft)		1 to 10 m (3 to 30 ft)								
Electrical																										
Supply Voltage	10.5 to 28 VDC		10.5 to 28 VDC		9.5 to 26 VDC		10.5 to 28 VDC		10.5 to 28 VDC		10.5 to 28 VDC		10.5 to 28 VDC		10.5 to 28 VDC		12 VDC/24 VAC									
Current (not activated)	20 mA (at 12 VDC)		22 mA (at 12 VDC)		12 mA (at 12 VDC)		20 mA (at 12 VDC)		20 mA (at 12 VDC)		20 mA (at 12 VDC)		20 mA (at 12 VDC)		20 mA (at 12 VDC)		DC: 100 mA AC: 1.5 W									
Alarm Relays Output(s)	1 SPST 28 VDC, 250 mA, 10 W		1 SPST 28 VDC, 150 mA, 3 W		2 SPST 28 VDC, 250 mA, 10 W		1 SPST 28 VDC, 250 mA, 10 W		1 SPST 28 VDC, 250 mA, 10 W		1 SPST 28 VDC, 250 mA, 10 W		1 SPST 28 VDC, 250 mA, 10 W		2 SPST 250 V, 2 A / 60 W		2 SPST 250 V, 2 A / 60 W									
Transistor Open Collector	1 NPN 60 V, 20 mA		1 NPN 30 V, 20 mA		2 NPN 60 V, 50 mA		1 NPN 60 V, 20 mA		1 NPN 60 V, 20 mA		1 NPN 60 V, 20 mA		1 NPN 60 V, 20 mA		2 NPN 60 V, 50 mA		2 NPN 60 V, 50 mA									
Cover Switch	30 VDC, 100 mA		250 VAC, 2 A			30 VDC, 100 mA		30 VDC, 100 mA		30 VDC, 100 mA		30 VDC, 100 mA		30 VDC, 100 mA		30 VDC, 100 mA		n/a								
Heating for Mirror Optics	n/a		12 VDC or 24 VDC		10 to 30 V DC / AC			n/a		12 VDC or 24 VDC		n/a		12 VDC or 24 VDC		n/a		12 VDC or 24 VDC		n/a						
Heating Power at -40°C 12 VDC	n/a		typ. 2 W		typ. 1 W			n/a		typ. 2 W		n/a		typ. 2 W		n/a		typ. 2 W		n/a						
Communication	Bi-directional RS 485, 9600 baud		n/a		Bi-directional RS 485, 9600 baud		Bi-directional RS 485, 9600 baud		Bi-directional RS 485, 9600 baud		Bi-directional RS 485, 9600 baud		Bi-directional RS 485, 9600 baud		Bi-directional RS 485, 9600 baud		Bi-directional RS 485, 9600 baud		Bi-directional RS 485, 9600 baud							
Environmental																										
Operating Temp.	-20 to 60°C (-4 to 140°F)		-40 to 60°C (-40 to 140°F)		-40 to 60°C (-40 to 140°F)		-40 to 60°C (-40 to 140°F)		-40 to 70°C (-40 to 158°F)		-20 to 60°C (-4 to 140°F)		-40 to 60°C (-40 to 140°F)		-20 to 60°C (-4 to 140°F)		-40 to 60°C (-40 to 140°F)		-20 to 60°C (-4 to 140°F)		-30 to 60°C (-22 to 140°F)					