

RV100



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Wire	Description	Functions
1	V _{cc}	+3.5V to +42V
2	RS485+	Modbus (A)
3	RS485-	Modbus (B)
4	Gnd	Power Supply Ground



Wire-outs

People Counting Sensor

The RV100 is a compact, thermal-based people counting sensor. It is sensitive to human heat signatures and designed for indoor and semi-outdoor deployment to heights of 4.5 meters.

Designed without a visible lens, it provides discreet occupancy detection and people counting for locations requiring privacy, such as washrooms, hotels, schools and offices.

Combining its high resolution and built-in classification and tracking algorithms, it is able to achieve more than 98% counting accuracy.

Key Applications:

- People counting
- Occupancy detection
- Security alarm

Key Features:

- >98% accuracy
- Immune to light variations
- Bi-directional counting
- User-configurable
- Protects privacy
- Network-enabled
- Compact and light-weight
- Automatic self-calibration

Technical Specifications

PARAMETER	REMARKS	MIN	TYPICAL	MAX	UNITS
OPERATING CONDITIONS					
Supply voltage, V_{IN}		3.5	12	42	V_{DC}
Current consumption		8		100	mA
Operating temperature		-20		60	°C
Storage temperature		-40		100	°C
Operating humidity				95	%RH
FIELD-OF-VIEW					
View angle - X (horizontal)			30		°
View angle - Y (vertical)			80		°
Coverage	@ 2 meter height		0.8 × 2.5		m ²
	@ 2.5 meter height		1.0 × 3.3		m ²
	@ 3 meter height		1.3 × 4.0		m ²
	@ 4 meter height		1.7 × 5.7		m ²
DETECTION CHARACTERISTICS					
Update rate				4	Hz
Image resolution			80 × 32		Pixels
INTERFACES					
Supported interface			RS485 / Modbus		
Physical interface			Open-end		
PHYSICAL PROPERTIES					
Dimensions	Without cable		63.0 × 63.0 × 17.0		mm
Weight	Without cable			40	g
Ingress Protection			IP55		
Colour			Translucent White		