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Motion sensors

	Standard range RAD series		Long range IRS series
Types	**RAD 01**	**RAD 02**	**IRS 01**
Connections	**cable**	**cable**	**cable**
Dimensions (mm)	118 x 80 x 53	118 x 80 x 53	137 x 188 x 91.5
Features	K-Band radar sensor compatible with all swinging and sliding automatic doors. 3-D adjustable position of the sensor offers precise orientation of the activation pattern. Microprocessor technology filters out possible weather condition interferences. IR remote controller can be added for easy adjustment.	K-Band radar sensor compatible with all swinging and sliding automatic doors. 3-D adjustable position of the sensor offers precise orientation of the activation pattern. Microprocessor technology filters out possible weather condition interferences. IR remote controller can be added for easy adjustment.	K-Band unidirectional long range motion sensor for trouble-free opening of all types of industrial automatic doors. To detect either people or vehicles, whether they are moving towards or away from the sensor. Microprocessor technology filters out possible weather condition interferences. IR remote controller can be added for easy adjustment.

Input specifications

Detection Angle	V: 0 to 90° in 15° increments L: ±30° in 7.5° increments	V: 0 to 90° in 15° increments L: ±30° in 7.5° increments	V: ±45° in 15° increments L: ±45° in 15° increments
Detecting Area Wide sensing field Narrow sensing field	mounting height 2.2 m 4 m (W) x 2 m (D) 2 m (W) x 2.5 m (D)	mounting height 2.2 m 4 m (W) x 2 m (D) 2 m (W) x 2.5 m (D)	mounting height 2.5 m~7 m 2.5 m (W) x 8 m (D) 2.5 m (W) x 10 m (D)
Detection Mode	Bidirectional	Uni & Bidirectional	Uni & Bidirectional
Motion Detecting Speed	0.05~1 m/s	0.05~1 m/s	0.05~3.0 m/s along sensor axis

Adjustments

Sensitivity	10 levels (1 to 10)	10 levels (1 to 10)	5 levels (1 to 5)
Hold Time	From 0.5 to 9 s in 10 steps	From 0.5 to 9 s in 10 steps	From 0.5 to 9 s in 10 steps
Immunity Detection	"Quasi-presence", normal, increased immunity	"Quasi-presence", normal, increased immunity	"Quasi-presence", normal, increased immunity, LTS
Direction Recognition	· Bidirectional detection	· Unidirectional approaching · Unidirectional departig · Uni & Bidirectional detection	· Unidirectional approaching · Unidirectional departig · Uni & Bidirectional detection
Operating Modes (or relays assignment)			· Differentiation between people and vehicles · People suppression · Vehicles suppression · People or vehicles with direction segregation
LTS			Lateral traffics suppression "toggle" type function

Output specifications

Output Relay SPDT Max. contact voltage Max. contact current Max. switching power	24 VDC / 120 VAC 1 A (resistive) 30 W (DC) / 120 VA (AC)	24 VDC / 120 VAC 1 A (resistive) 30 W (DC) / 120 VA (AC)	24 VDC / 120 VAC 1 A (resistive) 30 W (DC) / 120 VA (AC)
Hold time	0.5~9 s (adjustable)	0.5~9 s (adjustable)	0.5~6 s (adjustable)

Electrical specifications

Frequency emitted	24.125 GHz	24.125 GHz	24.125 GHz
Rated supply voltage	12~24 VAC ±10% 12~24 VDC +30% / -10%	12~24 VAC ±10% 12~24 VDC +30% / -10%	12~24 VAC ±10% 12~24 VDC +30% / -10%
Mains frequency	50 to 60 Hz	50 to 60 Hz	50 to 60 Hz
Power consumption	< 0.5 W	< 0.5 W	< 1.2 W
Approvals	CE - FCC - cURus	CE - FCC - cURus	CE - FCC - cURus

References

Sensor	**RAD 01**	**RAD 02**	**IRS 01**
Remote controller	**RAD 00 RC**	**RAD 00 RC**	**IRS 00 RC**

CARLO GAVAZZI Automation Components. Specifications are subject to change without notice. Illustrations are for example only.

Sense

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Product	Code	Reference	Product link
Selected parameters Others	IRS01		Buy on EAN
Selected parameters MODEL IR remote controller Others	RAD00RC		Buy on EAN