

# **PIR Occupancy Sensor LENS DATASHEET**

IR-TEC's TRANS and OS-NET PIR based Occupancy Sensors feature with interchangeable lens options. Each lens provides different sensing coverage which varies with the actual mounting height.

The specified detection coverage and mounting height of each lens are based on the test result of human motion walking across the detection zones. The actual coverage may be reduced if the motion is moving toward or away the sensor. High ambient temperature (above 82°F/28°C) could reduce the coverage of PIR sensor. If ambient temperature at the covered area are expected to be high sometimes, consider adding more sensors or reduce the mounting height, if possible.

The followings are all available lens options and their respective detection patterns at printing time. For details of latest lens options available, please visit <a href="https://www.irtec.com">www.irtec.com</a>.





#### **LENS OPTIONS**

Lens			Shape	Recommended Mounting Height		Coverage
А		Standard	Cone	8~15 ft.	2.4~4.5m	2X height
В		Extra wide	Cone	8~10 ft.	2.4~3.0m	6X height
С		High bay	Cone	15~30 ft.	4.5~9.0m	3X height
D		Standard	Round flat	8~20 ft.	2.4~6.0m	2X height
F		Extra wide	Dome	8~20 ft.	2.4~6.0m	4X height
G		Aisle way	Arch	8~40 ft.	2.4~12.0m	3X height
Н		High bay	Dome	30~50 ft.	9.0~15.0m	1X height
L		Long aisle	Arch	8~10 ft.	2.4~3.0 m	6X height

#### NOTE:

- Lens G/L can be rotated to change the direction of coverage. Its 3X/6X height coverage refers only to the total length, the width of coverage will vary with the mounting height (see table of Lens G/L section). This lens is not IP-66 rated.
- Lens C/G may be mounted up to 40/50 ft. (12/15m) or higher at the area, providing with large moving object such as forklift trucks. Before installing all sensors, please ensure that the sensor can have optimal detection at desired height.
- All dimensions are for reference only.



## LENS DATASHEET





#### 2.4 (8) 3.0 (10) 3.6 (12) 4.5 (15) Mounting Height m (ft.) **LENS A** 2X Standard 6.0 (20) 7.2 (24) 9.0 (30) Max. Coverage Ø m (ft.) 4.8 (16) Top View Minor Motion Ø 3.0 (10) 1.8 (6) 1.8 (6) m (ft.) 0.96" Side View (m) (ft.) (24.5mm) 2.4 4.5 4 (m) Ø2.56" 0 13 (ft.) 13 6.5 6.5 (Ø65mm) 2.4 2.6 2.8 3.0 **LENS B** Mounting Height 6X Extra wide (ft.) (8.5)(9)(8)(10)14.4 15.6 16.8 18.0 m Top View Max. Coverage Ø (48)(51)(54)(60)0.96" (24.5mm) Side View (m) (ft.) 3.3 10 10 (m) Ø2.56" 6.5 0 6.5 13 33 26 20 13 20 26 33 (ft.) (Ø65mm) 4.5 6.0 8.0 9.0 m **LENS C** Mounting Height 3X High bay (ft.) (15)(20)(26)(30)13.5 18.0 24.0 27.0 Top View Max. Coverage Ø (ft.) (45)(60)(78)(90)0.96" Side View (m) (ft.) (24.5mm) 0 6.5 13 20 26 14 10 6 2 0 2 6 10 14 (m) Ø2.56" 6.5 0 6.5 33 46 33 20 20 46 (ft.) (Ø65mm) Mounting Height m (ft.) 2.4 (8) 3.0 (10) 4.5 (15) 6.0 (20) **LENS D** 2X Standard Max. Coverage Ø m (ft.) 4.8 (16) 6.0 (20) 9.0 (30) 12.0 (40) Top View Minor Motion Ø m (ft.) 1.8 (6) 3.0 (10) 0.48" (m) Side View (ft.) (12.2mm) 8 2.4 4.5 Ø2.56' 2 6 6 (m) (Ø65mm) 20 13 6.5 0 6.5 13 20 (ft.)

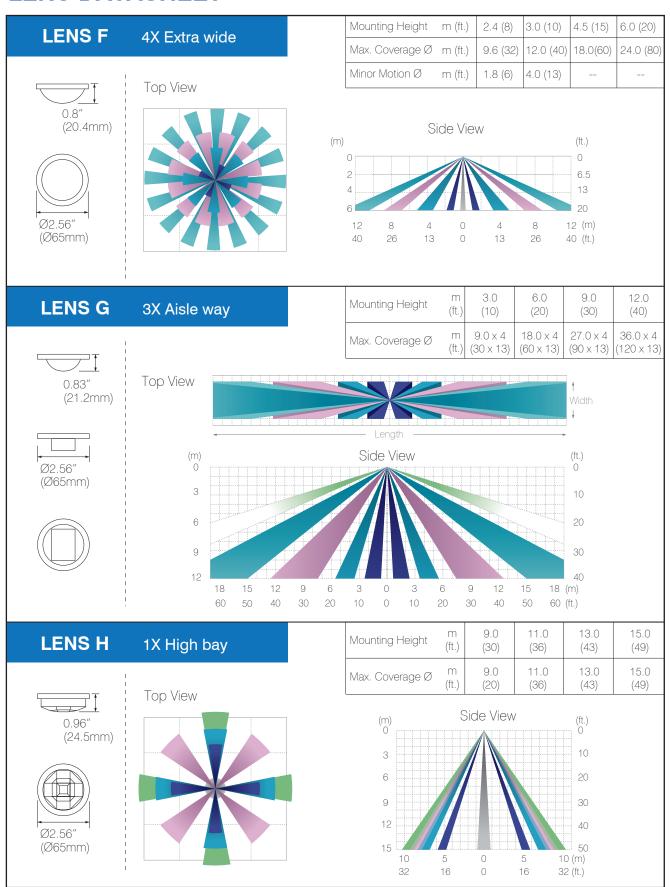




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