



PIR/TOF Sensor

The MSD01 is a smart, low-power occupancy sensor that combines PIR (Passive Infrared) and ToF (Time-of-Flight) technologies for occupancy detection. This enables precise motion tracking and accurate distance measurement. The sensor offers flexible installation options with an adjustable 150° rotation angle, which can be adjusted for each of both sensors individually. Its hardware is ideal for utilization analysis in workspaces and enclosed areas such as phone booths.

KEY FEATURES

Dual Sensor Technology:	PIR and ToF technology for accurate occupancy detection
Precise Distance Measurement:	Detection range from 20 mm to 2500 mm with an accuracy of ±10 mm
Flexibly Adjustable	150° rotation for optimal coverage

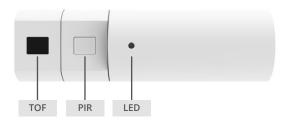
TECHNICAL SPECIFICATIONS

Dimensions:	Ø110 mm x φ 34 mm
Weight:	75 g
Power supply:	2700 mAh lithium battery (replaceable)
Bluetooth-Version:	BLE 5.0
Transmission Distance:	150 m (open environment)
Battery Life:	Up to 3 years
Operating Temp.:	-10°C bis +45°C

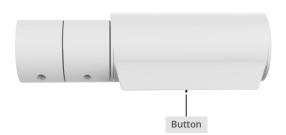


Operating Humidity:	≤95% RH, non-condensing
ToF Parameters:	FOV: 27° Measuring Range: 20 mm - 2500 mm
PIR Parameters:	FOV: Horizontal 100°, Vertical 20° Sensing Distance: 3 m
Installation:	Double-sided adhesive tape or magnetic mount
Certification:	CE, FCC

OPERATION & INSTALLATION		
Power On:	Press and hold the button for 5 seconds	
Power Off:	Press the button, then hold it again until the LED turns off	
Tamper Protecion:	Triggers an alert if the device is removed from its mounting	
Battery Replacement:	Simple twist mechanism on the device side	
LED:	Blue LED signals detection and status	
Occupancy Display:	If occupancy is detected, the blue LED remains lit until the space is vacated	







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