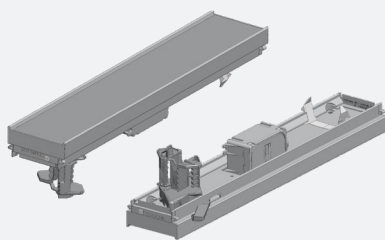# ZUMTOBEL

SENSOR

CONTROLLER

TECTON EnOcean SENSOR
Daylight, High Bay and Occupancy Sensor for TECTON Trunking System

→ PIR Sensor with ambient light dependent control and motion detection

→ Bright-out function: luminaire is not switched on if there is adequate illumination (programmable)

→ Suitable for use with all TECTON Trunking system compatible luminaires

c(UL)us Suitable for Dry Locations

Order Code

SENSORS*	
E00439SR	TECTON EnOcean SENSOR High Bay Ceiling Mount
E00438SR	TECTON EnOcean SENSOR Occupancy Ceiling Mount
E00437SR	TECTON EnOcean SENSOR Daylight Ceiling Mount
11088773	TECTON EnOcean SENSOR High Bay Trunking White
11088774	TECTON EnOcean SENSOR Occupancy Trunking White
11088775	TECTON EnOcean SENSOR Daylight Trunking White
11088777	TECTON EnOcean SENSOR High Bay Trunking Black
11088778	TECTON EnOcean SENSOR Occupancy Trunking Black
11088776	TECTON EnOcean SENSOR Daylight Trunking Black

OPTIONAL ACCESSORIES	
11088781	EnOcean QR Scanner [1]
11088782	EnOcean Key [2]

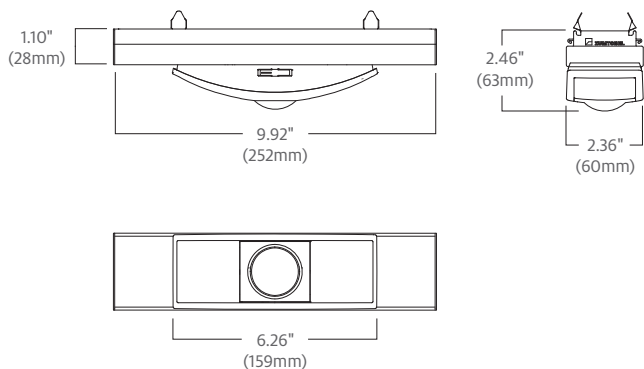| CONTROLLERS	
11088779	TECTON EnOcean Controller Black
11088780	TECTON EnOcean Controller White

* If commissioning is to be done on site, software will need to be downloaded from www.EnOcean.com

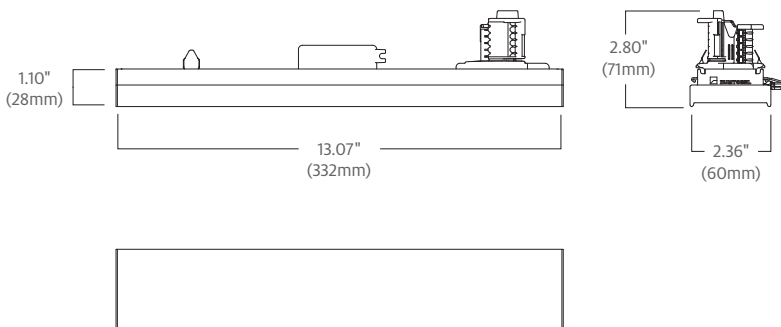If commissioning on site is required please contact factory for quote.

[1] Optional for commissioning
[2] Required for Commissioning

Sensor Dimensions

1.10" (28mm)
9.92" (252mm)
2.46" (63mm)
2.36" (60mm)
6.26" (159mm)

Controller Dimensions

1.10" (28mm)
13.07" (332mm)
2.80" (71mm)
2.36" (60mm)

Technical Detail

EnOcean Daylight Sensor

Power Supply	Solar energy harvesting (integrated solar cell)
Measurement Range / Resolution	0 ... 1020 lux / 4 lux
Typical Accuracy	+-5 % at full scale / 68°F
Measurement Interval	1 minute
Transmission Interval	Immediate if change > 50lux versus last transmission. Heartbeat every 20 ... 30 minutes (affected at random)
Radio Range	80 ft. (25m)
Mounting Position	At the ceiling, close to ambient light source (window)
Operating Conditions	Indoor use only / 32° to 140° F (0° to 60° C). 20% to 85% relative humidity (non-condensing)

EnOcean High Bay Sensor

Power Supply	Indoor light energy harvesting
Optional	Supplemental battery (CR2032) or 2-wire connector for external power or remote solar cell (3 – 5 V DC)
RF Transmission Range	160 ft. (50 m)
Motion Sensing Range	60 ft. (18 m) diameter @ 33 ft. (10 m) mounting height
Sustaining Charge Time	3 hours per 24 hours @ 200 lux for battery free operation
Time to Full Charge [1]	25 hours @ 200 lux
Operating Life in Total Darkness	80 hours (after full charge)
Minimum Operating Light	50 lux (for auto-off only)
Mounting Height	10 – 33 feet (3 – 10 m) recommended
Environment	Indoor use only 14° to 104°F (-10° to 40°C) 20% to 95% relative humidity

EnOcean Occupancy Sensor

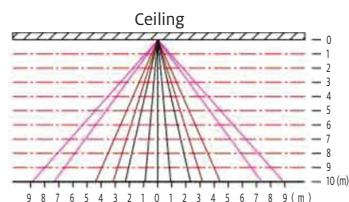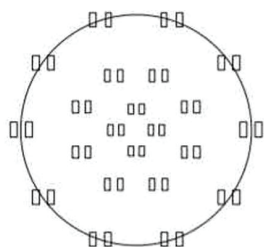|	
Power Supply	Indoor light energy harvesting; supplemental battery (CR2032) or 2-wire connector for external power or remote solar cell (3 – 5 V DC)
Transmission Range	80 ft. (25 m)
Motion Detection Range	34 ft. (10 m) diameter (refer to coverage diagrams)
Minimum Operating Light	50 lux (for auto-off only)
Charge Time to Full	25 hrs @ 200 lux
Sustaining Charge Time	3 hours per 24 hours @ 200 lux
Environment Indoor Use	14° to 104°F (-10° to 40°C), 20% to 95% relative humidity (non-condensing)
Operating Life in Darkness	80 hours (after full charge)
Mounting Height	7 – 10 ft. (2 – 3 m) recommended

EnOcean Controller

Power Supply	120/277 V AC, 60 Hz
RF Communications	EnOcean 902 MHz
Transmission Range	100 ft. (30 m)
Environment	Indoor use only 32° to 140°F (0° to 60°C). 20% to 85% relative humidity (non-condensing)
Sustaining Charge Time	3 hours per 24 hours @ 200 lux

1 Natural bright light (2000 lux) or a battery can be temporarily used to significantly shorten startup charge times. Specified lux values are for typical fluorescent lighting. Lux level requirements for LED and other types may vary. For lux reference, OSHA standards require a minimum of 323 lux for office areas.

Sensor Range and Coverage

A single occupancy sensor provides sufficient coverage for most applications. For some applications, multiple sensors may be required to provide complete coverage. To provide coverage for very high ceilings, a wall sensor can be incorporated in the plan for complete coverage.

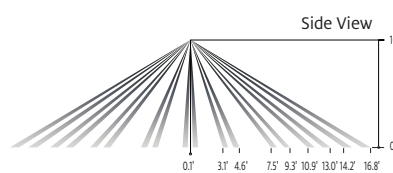**Coverage Diagrams**

Sensor Range and Coverage Diagrams

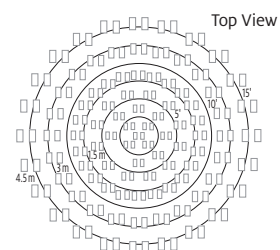Fig 1: Side view of sensor coverage based on 10 ft. mounting height

Fig 2: Top view of sensor coverage based on 10 ft. mounting height