

TST MOTION CONTROL LUMINAIRE



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The TST Motion Control Luminaire, monitors ambient light and occupancy detection. Through integrated temperature measurement its built-in 2 x PIR Sensor enables extended features like detecting objects with side orientation.

The TST Motion Control Luminaire's low energy consumption over DALI-2 bus supply is ready for Zhaga Book 18 Ed. 3 receptacle, it's easy and flexible to install onto the luminaire. The rectangular detection area is ideal for street applications. The TST Motion Control is D4i approved and fully compatible with DALI Part 351 including MB201.

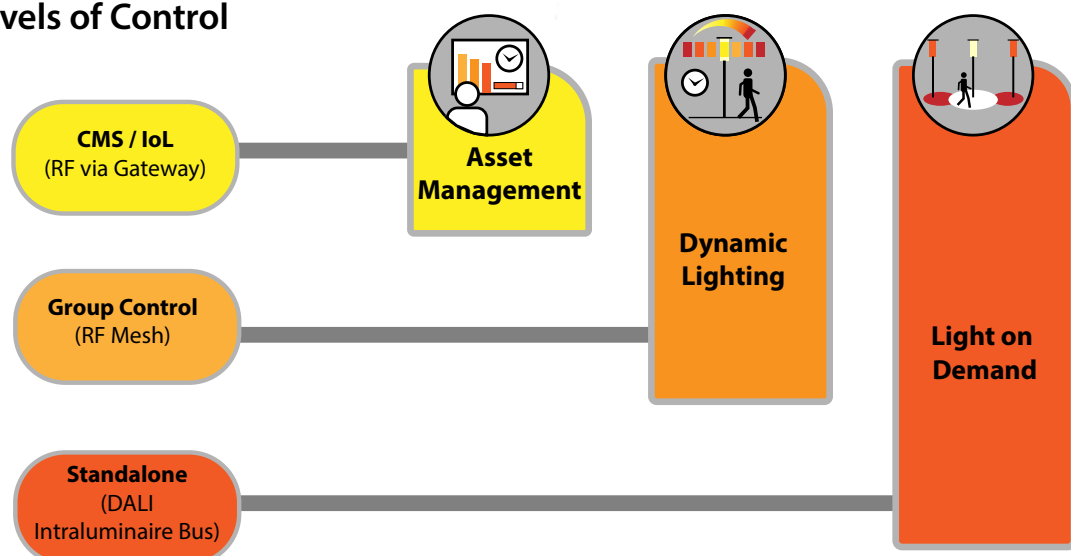
The TST Motion Control, offers 3 levels of control

1. Asset Management
2. Dynamic Lighting
3. Lighting on Demand



Connected Outdoor Lighting

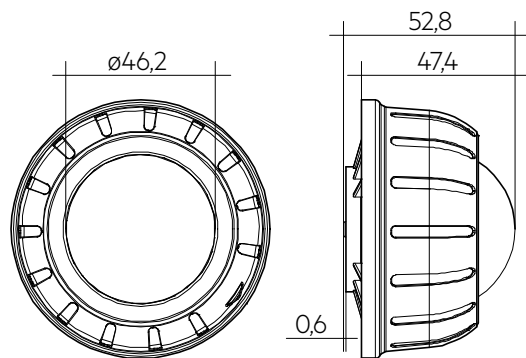
The 3 levels of Control



Built on TST Driver Platform
& Standard Connectivity Interface



Dimensions



Technical Data

- Monitoring of ambient light and occupancy detection
- Integrated temperature measurement
- 2 x PIR Sensor built-in enabling extended features like detecting objects with side orientation
- Low energy consumption over DALI-2 bus supply
- Ready for Zhaga Book 18 Ed. 3 receptacle for easy and flexible installation to luminaire
- Rectangular detection area ideal for street applications
- Pressure equalizing membrane built-in
- D4i approved and fully compatible with DALI Part 351 including MB201
- Lifetime up to 100,000 hours at 60 °C
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Housing properties

- Casing: Dark grey (RAL 7040)
- Type of protection up to IP66
- Impact protection \leq IK08 (without lens)

Benefits

- First DALI-2 asymmetric motion sensor based on Zhaga receptacle
- Individual adjustment of parameters with configuration software
- Highest outdoor requirements tested

Typical applications

- Rectangular detection area ideal for street application at 4 to 8 metres

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SUMMARY

The sensorMODE combines the features chronoSTEP and corridorFUNCTION and adds the possibility to control them with a DALi input device directly connected to the LED driver.

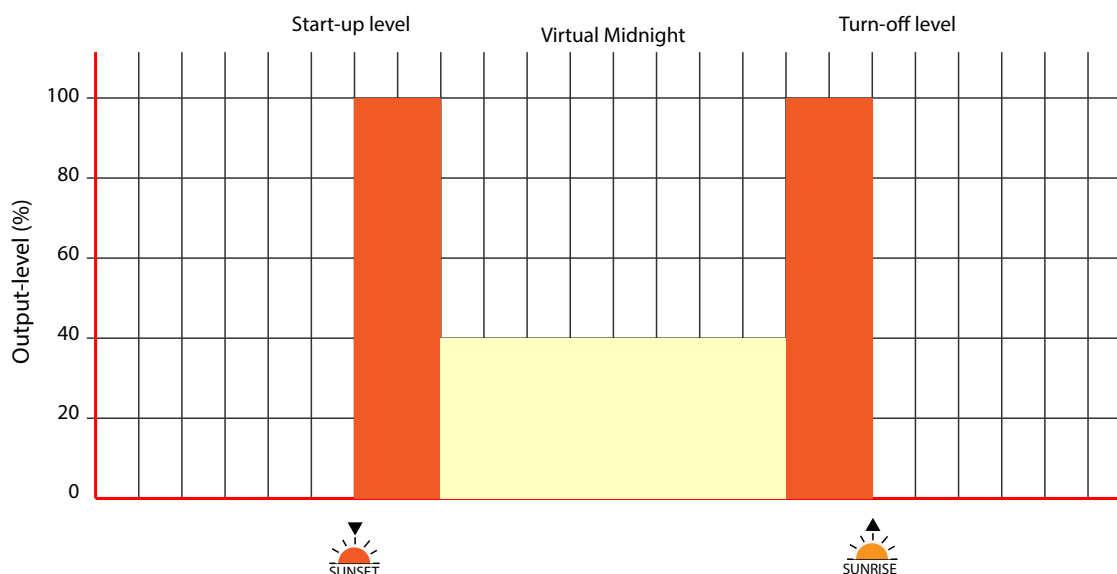
There are 4 different control modes supported by the sensorMODE function.

Mode 1: Ambient light control

In this mode the light sensor of a connected DALi sensor is used to start/stop the chronoSTEP function.

The chronoSTEP function is started when the measured light value falls below the defined start-up level and turned off as soon as the measured value exceeds the defined turn-off level.

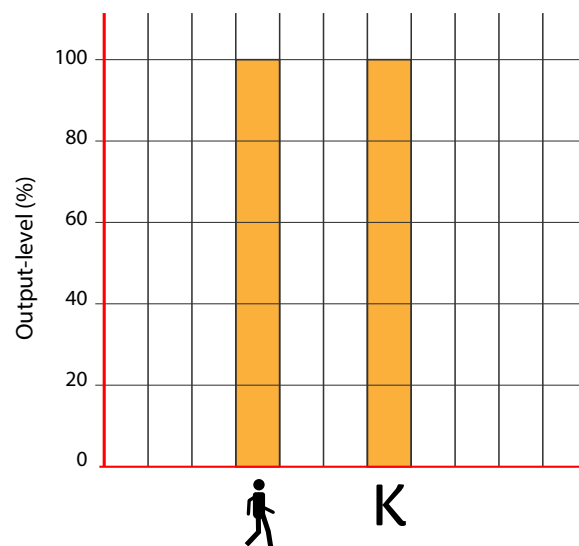
| Parameter | Default Value | Description | Min. Value | Max. Value |
|------------------|---------------|---|------------|------------|
| Switch-on level | 50 lx | Defines at which light level the chronoSTEP function should be started. | 01x | 1,000 lx |
| Switch-off level | 200 lx | Defines at which level the chronoSTEP function should be stopped. | 01x | 5,000 lx |
| Fade-out time | 30s | Time needed to reach the absence value. | 0s | 160s |
| Midnight shift | 0s | To shift the virtual midnight, alternatively to the manual input it can also be a location with longitude and latitude. | -2h 7 mins | +2h 7 mins |



Mode 2: Motion Control

This mode triggers the well known corridorFUNCTION by a connected DALi motion sensor instead of a mains switch.

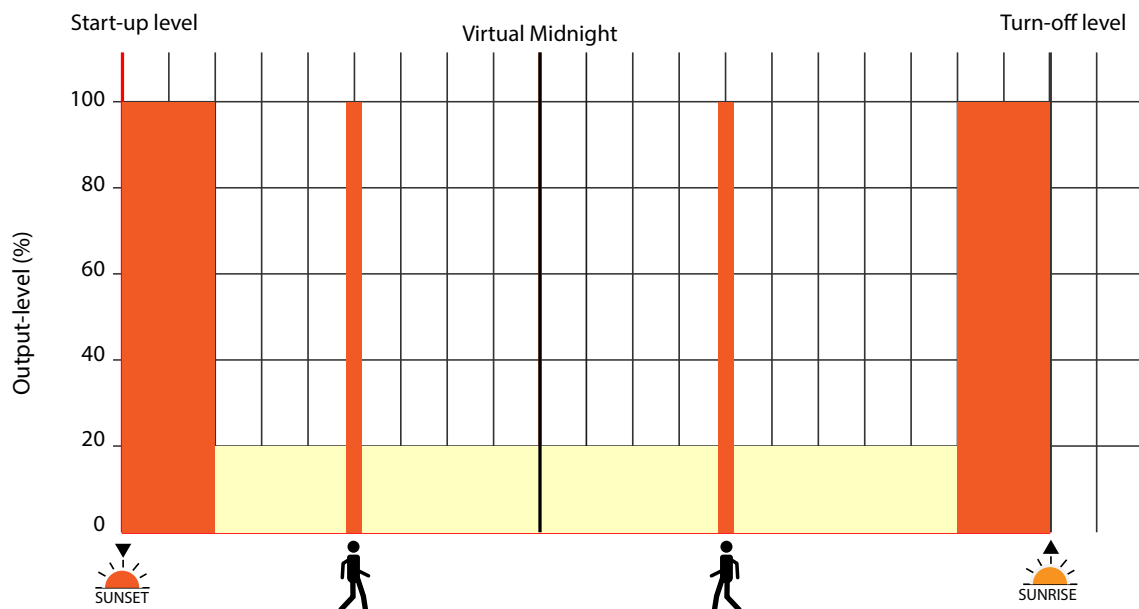
| Parameter | Default Value | Description | Min. Value | Max. Value |
|------------------|---------------|---|------------|-------------------------|
| Presence level | 100% | Brightness value that the luminaire occupies as soon as a movement/presence has been detected. | 0% | 100% |
| Absence level | 10% | Brightness value that the luminaire occupies while the switch-off delay is running. | 0% | 100% |
| Fade-in time | 0s | Time required to reach the presence level. | 0s | 160 mins |
| Run-on time | 0s | Time that begins to run from the last moment that presence was detected from the sensor. After the run-on time the fade-out transition is started. If another presence is detected by the sensor during run-on time, the run-on time is started again. | 0s | 42mins 30s |
| Fade-out time | 30s | Time needed to reach the absence value. | 0s | 160 mins |
| Switch-off delay | Never off | Time in which the absence value is held. After expiration, it is either switched off or the absence value is held (Never off). | 0s | 42mins 20s Never off |



Mode 3: Ambient light with motion control

This mode combines the function ambient light control and motion control. The chronoSTEP function is activated by the ambient light level but it can be temporarily overwritten by the motion sensor if motion is detected.

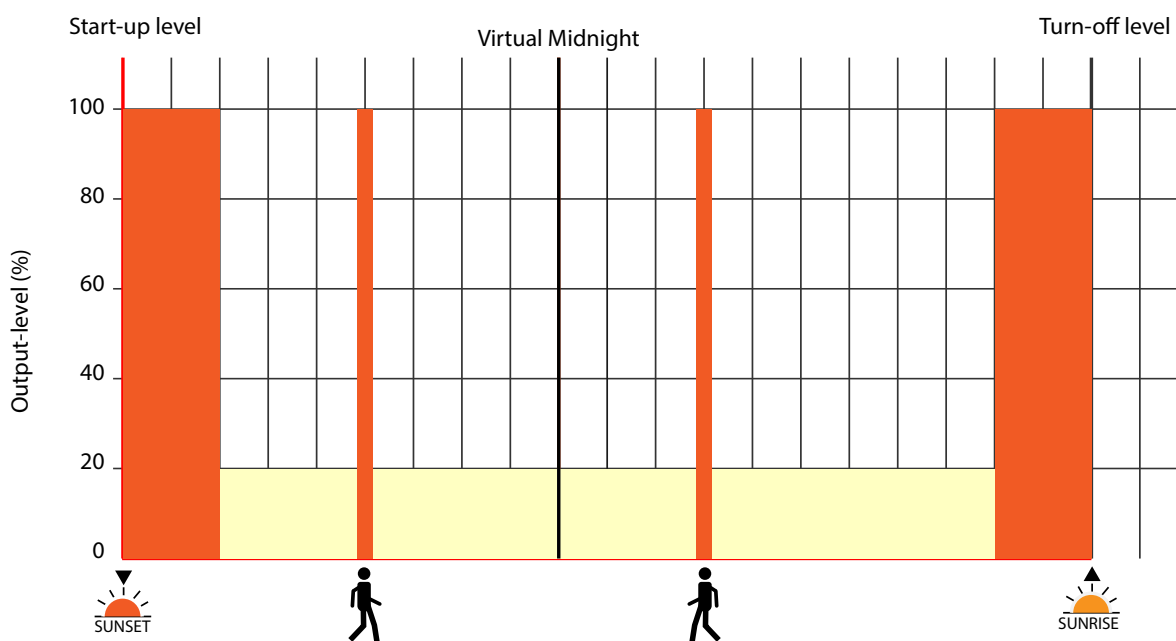
| Parameter | Default Value | Description | Min. Value | Max. Value |
|------------------|---------------|--|-------------|-------------|
| Start-up level | 50 lx | Defines at which light level the chronoSTEP function should be started. | 0 lx | 1,000 lx |
| Switch-off level | 200 lx | Defines at which level the chronoSTEP function should be stopped. | 0 lx | 5,000 lx |
| Presence level | 100% | Brightness value that the luminaire occupies as soon as a movement/presence has been detected. | 0s | 100% |
| Fade-in time | 0s | Time required to reach the presence value. | 0s | 160 mins |
| Run-on time | 0s | Time that begins to run from the last moment that presence was detected from the sensor. After the run-on time the fade-out transition is started. If another presence is detected by the sensor during run-on time, the run-on time is started again. <i>Caution Please note that the driver has an internal 1 minute time out before the chronoSTEP function takes over again. That means if you want to have a run-on time of 5 min you have to program 4 min run-on time (4 min run-on time + 1 min time out).</i> | 0s | 42mins 30s |
| Midnight shift | 0s | To shift the virtual midnight, alternatively to the manual input it can also be a location with longitude and latitude. | -2hrs 7mins | +2hrs 7mins |



Mode 4: Mains with motion control

In this mode the chronoSTEP function is controlled by switching the mains, but it can be temporarily overwritten by the motion sensor if motion is detected.

| Parameter | Default Value | Description | Min. Value | Max. Value |
|----------------|---------------|--|------------|------------|
| Presence level | 100% | Brightness value that the luminaire occupies as soon as 0% a movement/ presence has been detected. | 0% | 100% |
| Fade-in time | 0s | Time required to reach the presence value. | 0s | 160mins |
| Run-on time | 0s | Time that begins to run from the last moment that presence was detected from the sensor. After the run-on time the fade-out transition is started. If another presence is detected by the sensor during run-on time, the run-on time is started again. <i>Caution Please note that the driver has an internal 1 minute time out before the chronoSTEP function takes over again. That means if you want to have a run-on time of 5 min you have to program 4 min run-on time (4 min run-on time + 1 min time out).</i> | 0s | 42mins 30s |





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