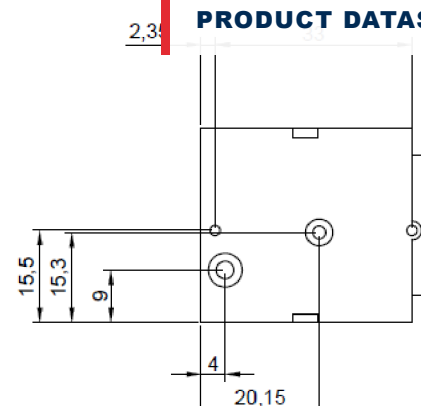


EnergyNode Pulse

Radar motion sensing with D4i control, daylight filtering and Bluetooth Mesh

D4i | 5.8 GHz radar | Bluetooth Mesh | Twilight

PRODUCT DATASHEET



ADVANTAGES.

-  Trigger forwarding between mesh devices
-  Near-invisible in-fixture installation
-  Energy-saving, demand-driven lighting
-  Compatible with bus-powered DALI-2 and D4i gear
-  Compact and easy to install
-  Twilight-switch functionality
-  Movement detection up to 8 m under suitable conditions
-  Multi-driver support

REMOTICOM | ENERGNODE | PULSE | D4i | BLUETOOTH MESH

EnergyNode Pulse.

The EnergyNode Pulse combines 5.8 GHz radar motion sensing, daylight detection, D4i lighting control and Bluetooth Mesh in a compact in-fixture module.

The module supports dynamic lighting in stairwells, corridors, tunnels and bicycle sheds, where continuous full illumination is unnecessary.

Trigger forwarding allows adjacent routes or groups to respond to detected movement. Configurable hold levels, fade times and idle levels shape the lighting response.

Mesh gateways provide internet connectivity, remote configuration, monitoring and firmware updates. A gateway can also supply time for dim schedules.

Commissioning configurations can be prepared before installation and applied on site through the gateway workflow.

 **Detection sensitivity**
Configure predefined or custom sensitivity ranges through the gateway.

 **Hold-time sequence**
Apply a maximum level, then step down toward idle or off after successive hold periods.

 **Daylight filter**
Keep lights off during daylight even when motion is detected.

 **Configurable fade**
Fade between levels; motion triggers can bypass the fade when required.

 **Bluetooth Mesh**
Join gateways automatically for remote configuration and monitoring.

 **DIM schedules**
Process schedules when a gateway or another source provides time.

 **Prepared configuration**
Create a site configuration before installation and apply it during commissioning.

 **Remote updates**
Support wireless firmware updates through a connected gateway.

D4i Type-D	DALI-2 Bus powered	BT Mesh Networked	IP20 In-fixture
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TRIGGER FORWARDING.

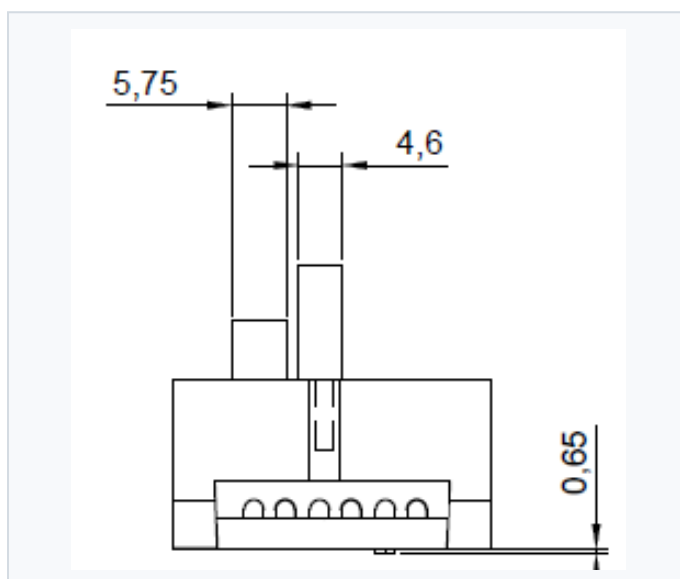
When motion is detected, neighboring devices or defined routes can be informed so the likely path is illuminated while unused paths remain dimmed.

HOLD LEVELS AND FADE TIME.

After a trigger, the light can remain at the configured maximum level for a hold time and then step down toward idle or off. Fade duration is configurable.

MESH GATEWAY.

A gateway connects the mesh to remote configuration and monitoring and can provide a time source for schedules.



OCCUPANCY ESTIMATION.

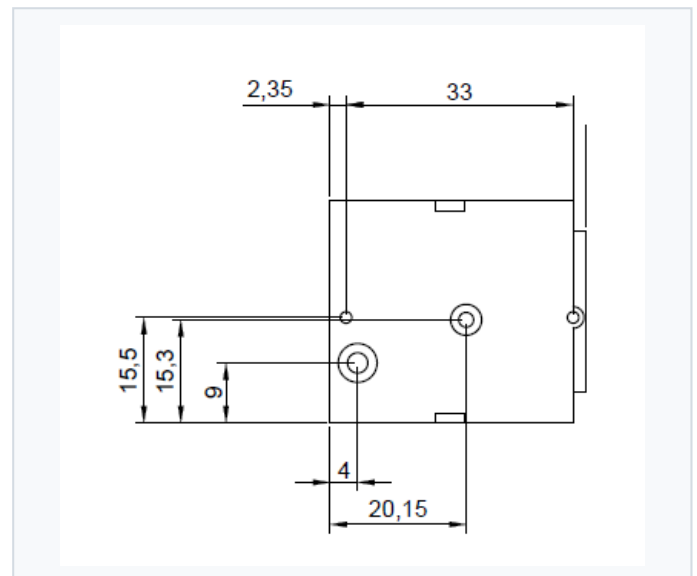
Paired doorway sensors and group-level triggers can reduce the risk of occupied areas becoming dark when people remain relatively still.

TWILIGHT FILTER.

The daylight filter suppresses motion-triggered lighting when the measured daylight level exceeds the configured threshold.

PREPARED COMMISSIONING.

A planner can prepare the location configuration before devices are installed so the installer only needs to load and apply it on site.



APPLICATION NOTE.

The stated motion range is installation-dependent. Fixture material, mounting height and surrounding geometry can affect detection performance.

Physical information	
Dimensions	38 x 33 x 30 mm
Colour (RAL)	Light grey
Installation	Inside fixture
Connection	Two-pin connector
Mounting location	Wall or ceiling
Maximum mounting height	4 m
Electrical information	
Rated voltage	12 to 22.5 V DC, according to DALI
Average current	15 mA
Absolute min/max voltage	9 to 26 V DC
Settings	Bluetooth or gateway application
DALI and sensing	
D4i type	Type-D, single master
Bus power required	Yes
Compatible drivers	DALI-2 and D4i
Twilight-switch level	50 lux
Radar technology	5.8 GHz
Environment and quality	
Operating temperature	-20 °C to +70 °C
Humidity	10 % to 80 %, non-condensing
Storage temperature	-25 °C to +70 °C
Storage humidity	10 % to 80 %, non-condensing
Ingress protection	IP20
Commercial	
Article number	786.11.502.01

INSTALLATION ENERGYNODE PULSE.

1. Mount the compact module inside a suitable fixture at the intended wall or ceiling location.
 2. Connect the two-pin DALI interface and verify bus power.
 3. Load the prepared configuration or commission the device through Bluetooth or the gateway.
 4. Test motion range, daylight filtering, hold levels and mesh trigger forwarding.

D4i
Type-D

DALI-2
Bus powered

BT Mesh
Networked

IP20
In-fixture