



# Intelligent Track Lighting Control

Wireless, scalable control for modern retail, office and residential spaces.



Individual luminaire control  
Integrated sensors & emergency logic  
Scalable from single track to multi-site

**HYTRONIK**®  
SENSORS & LIGHTING CONTROL

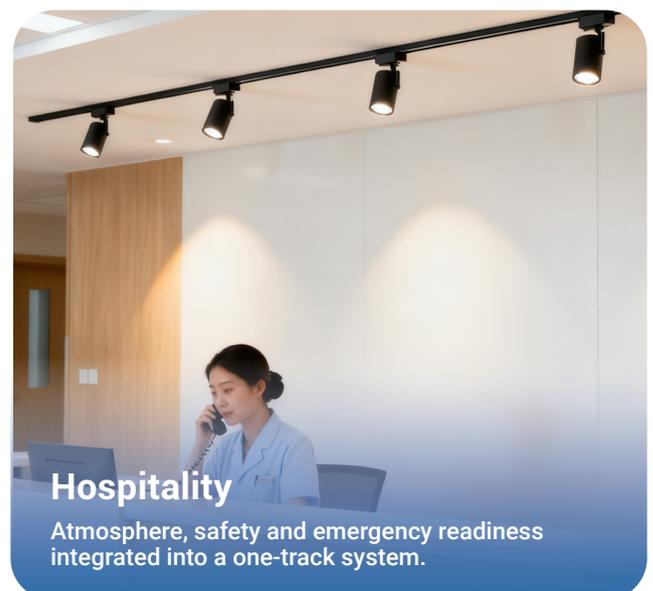
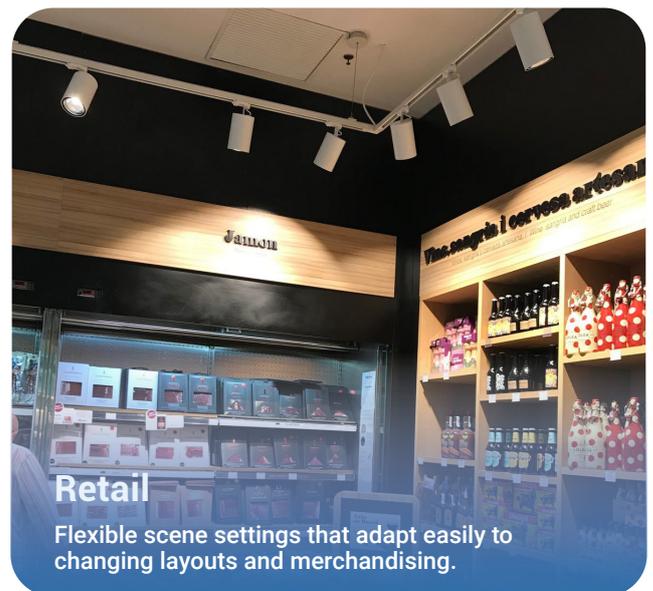
**Koolmesh**®  
— TAILOR MAKE YOUR SOLUTION

# A flexible track lighting system designed for modern spaces - from sighting to intelligent control.

Lighting projects shouldn't be limited by wiring complexity or fragmented components. The Hytronik Track Light System brings power, control intelligence into one unified track

– giving designers, engineers and installers the freedom to build lighting the way they need.

## • Where it makes a difference



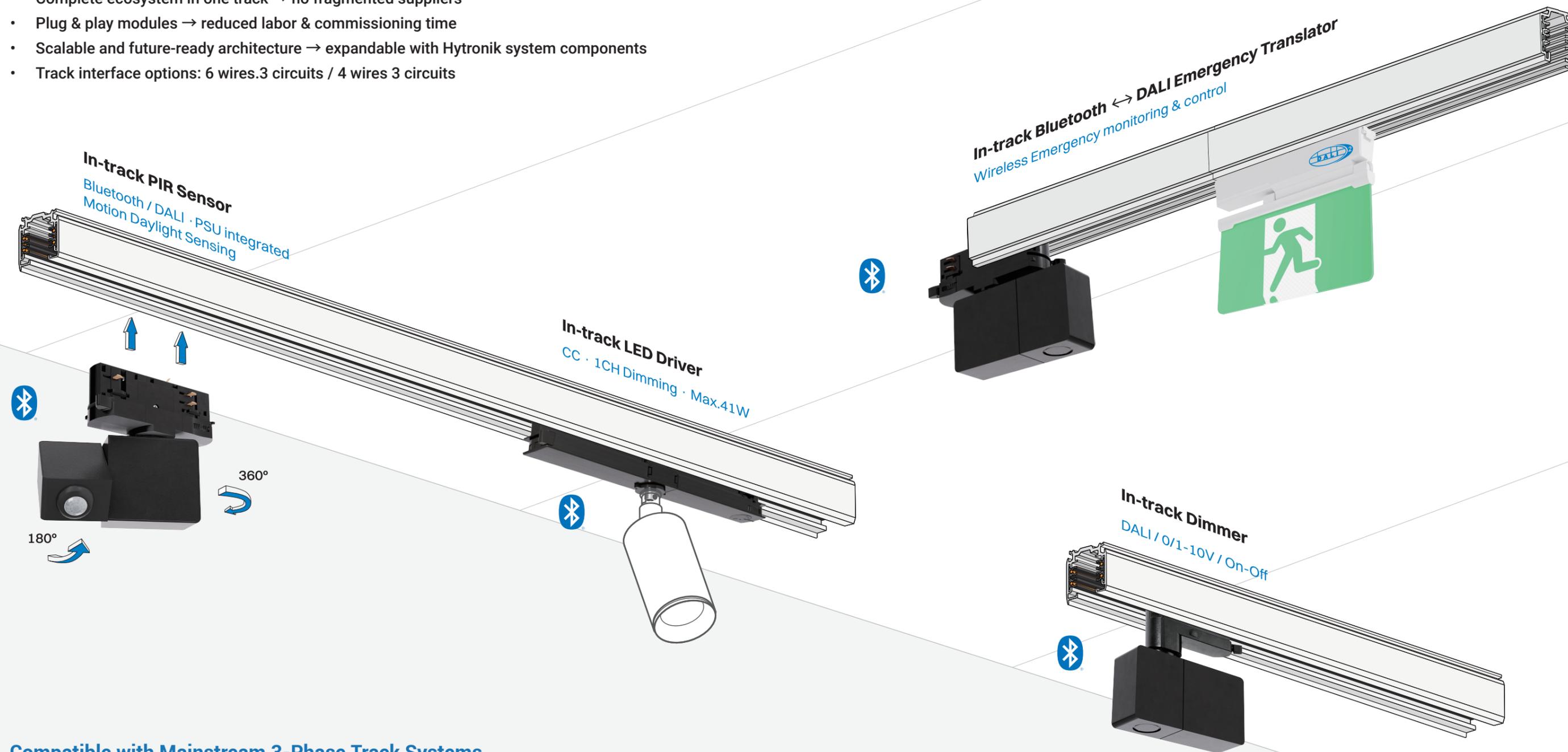
## • How it works

A modular track system where sensors, drivers, dimmers and emergency modules integrate seamlessly into the same track-ready to scale when projects grow.

# One-Stop Intelligent Track light System

Everything you need- sensors, drivers, controllers & emergency - Integrated

- Complete ecosystem in one track → no fragmented suppliers
- Plug & play modules → reduced labor & commissioning time
- Scalable and future-ready architecture → expandable with Hytronik system components
- Track interface options: 6 wires.3 circuits / 4 wires 3 circuits

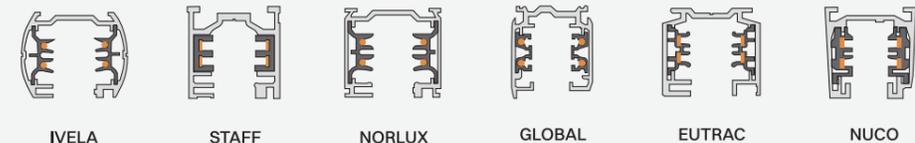


## Compatible with Mainstream 3-Phase Track Systems

6 Wires track adaptor



4 Wires track adaptor



# Product Overview

## In-track Sensor

Designation	Input Voltage	Output	Detection Method	Daylight Sensor/ Key Features	Tunable White Control	Active Lux Switching	Installation High	Page
 <b>NEW</b>  <b>HIR62/TKN</b> 4 Wires 3 Circuits	220~240VAC	/	PIR	Photodiode Tri-level Dimming Daylight Harvest Circadian Rhythm	✓	✓	Low-bay max. 3m	7 P
 <b>NEW</b>  <b>HIR60/TKN</b> 6 Wires 3 Circuits	220~240VAC	DALI	PIR	Photocell Tri-level Dimming Daylight Harvest Circadian Rhythm	✓	✓	Low-bay max. 3m	8 P
 <b>NEW</b>  <b>HIR63/TKN</b> 6 Wires 3 Circuits	220~240VAC	DALI with PSU	PIR	Photocell Tri-level Dimming Daylight Harvest Circadian Rhythm	✓	✓	Low-bay max. 3m	8 P

## In-track LED Driver

Designation	Type	Input Voltage	Output Uout max.	Output Dimming Interface	Max. Output Power / Current / Voltage range	Page
  <b>HED5040/BT</b> 6 Wires 3 Circuits	Constant Current	220~240VAC	60V	Bluetooth	2-15W/ 350mA /6-42V    2.5-17W/400mA/6-42V 2.5-19W/450mA/6-42V    3-21W/500mA/6-42V 3-23W/550mA/6-42V    3.5-25W/600mA/6-42V 4-27W/650mA/6-42V    4-29W/700mA/6-42V 4.5-32W/750mA/6-42V    5-34W/800mA/6-42V 5-36W/850mA/6-42V    5.5-38W/900mA/6-42V 6-40W/950mA/6-42V    6-40W/1000mA/6-40V 6-41W/1050mA/6-39V	7 P

## In-track Emergency Converter Bluetooth ↔ DALI

Designation	Input Voltage	Output	Bluetooth Sensor-link	Push Switch	Application Type	Page
 <b>NEW</b>  <b>HBEM54/N</b> 6 Wires 3 Circuits	220~240VAC	DALI/DALI-2 I max:100mA	/	/	Bluetooth to DALI Emergency Converter	10 P
  <b>HBEM54</b> 6 Wires 3 Circuits	220~240VAC	DALI/DALI-2 I max:100mA	✓	/	Bluetooth to DALI Emergency Converter	10 P

\*Please always check the latest datasheet for technical requirements-----<http://hytronik.com>

# In-track Dimmer

Designation	Input Voltage	Output	Bluetooth Sensor-link	Push Switch	Application Type	Page
 <b>NEW</b>  HBT54/N 6 Wires 3 Circuits	220~240VAC	DALI 100mA, 16VDC	√	√	Bluetooth to DALI Converter	11 P
  HBT54 6 Wires 3 Circuits	220~240VAC	DALI/DALI-2 I max:100mA	√	/	Bluetooth to DALI Converter	11 P
 <b>NEW</b>  HBT54S/N 4 Wires 1 Circuit	220~240VAC	On/Off Control 400VA/800W	√	√	Bluetooth to On/off Relay Control	12 P
 <b>NEW</b>  HBT54V/N 6 Wires 3 Circuits	220~240VAC	0/1-10V 400VA/800W	√	√	Bluetooth to 0/1-10V Control	13 P

\*Please always check the latest datasheet for technical requirements-----<http://hytronik.com>

# In-track Sensor

Low-bay

4 Wires 3 Circuits

Bluetooth Receiver



NEW



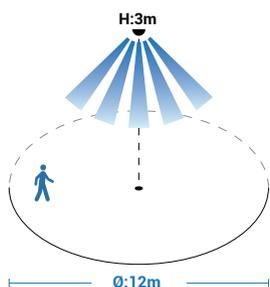
HIR62/TKN

## Key Benefits

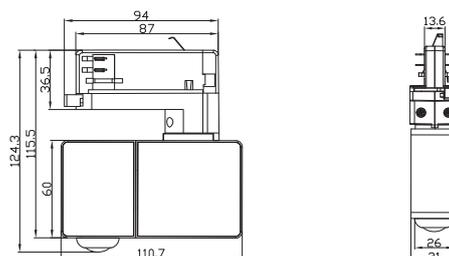
- Occupancy sensor & light sensor
- Compatible with 3-phase track systems
- Omnidirectional dual-axis rotation allows for flexible adjustment
- Plug-and-play simplifies wiring and saves project costs
- Enhance the track light system with smart lighting capabilities
- Wireless configuration via Koolmesh App

## Detection Range (Max.)

Height  
3m  
Range Ø  
12m



## Mechanical Structure (unit: mm)



## Main Functions



Daylight harvest



Tri-level control



Circadian rhythm

## Technical Specifications

Designation	Output	Operating voltage	Stand-by power	IP Rating
HIR62/TKN	Bluetooth Output	220~240VAC 50/60Hz	<0.5W	IP20

\*Please always check the latest datasheet for technical requirements-----<http://hytronik.com>

# In-track Sensor

Low-bay

6 Wires 3 Circuits

DALI with PSU



HIR63/TKN

HIR60/TKN



NEW

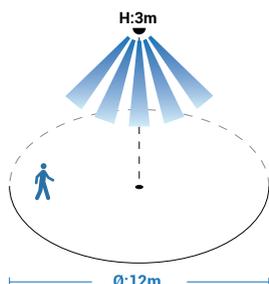
DALI Version  
HIR60/TKNDALI with PSU Version  
HIR63/TKN

## Key Benefits

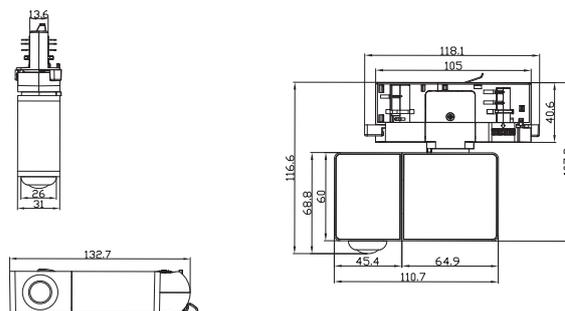
- Built-in occupancy and light sensors
- Compatible with 3-phase track systems
- DALI with built-in PSU options available
- Support independent/grouped control for 3 circuits
- Omnidirectional dual-axis rotation allows for flexible adjustment
- Plug-and-play simplifies wiring and saves project costs
- Enhance the DALI track light system with smart lighting capabilities
- Wireless configuration via Koolmesh App
- Supports reading luminaire, energy, fault and diagnostic data from connected D4i drivers.

## Detection Range (Max.)

Height  
3m  
Range Ø  
12m



## Mechanical Structure (unit: mm)



## Main Functions



Daylight harvest



Tri-level control



Circadian rhythm

Support the control of  
DT6/DT8 and D4i  
drivers

## Technical Specifications

Designation	Output	Operating voltage	Stand-by power	IP Rating
HIR60/TKN	DALI DALI BUS: I max. 30mA	220~240VAC 50/60Hz	<0.5W	IP20
HIR63/TKN	DALI with PSU I guaranteed: 30mA I max: 60mA U rated: 15VDC	220~240VAC 50/60Hz	<0.5W	IP20

\*Please always check the latest datasheet for technical requirements-----<http://hytronik.com>

# In-track LED Driver

Max. 40W(CC) Output

6 Wires 3 Circuits

1CH Dimming



HED5040/BT

## Key Benefits

- Bluetooth dimmable constant current/in-track LED driver
- Compatible 3-phase system in-tracks
- Adjustable output current via DIP switch
- Protective features (short-circuit, overload, open-circuit)
- Logarithmic dimming and linear dimming modes
- Flexible configuration via companion Koolmesh App

## Main Functions



(CC) output via DIP switch

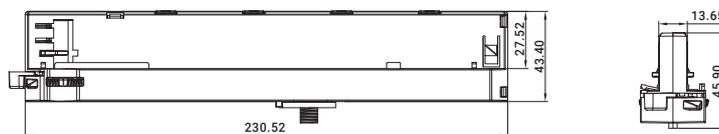
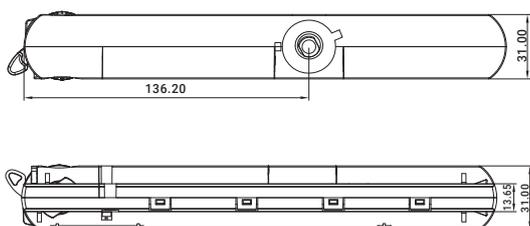


Active PFC design



Flicker free (1-100%)

## Mechanical Structure (unit: mm)



## Technical Specifications

Designation	Operating Voltage	Input Current	Efficiency	Power Factor	Psb/Pno	Output Current	Turn-on Time	Output Voltage	Uout Max.
HED5040/BT	220~240VAC 50/60Hz	215~195mA	88% (Max.)	0.99	<0.5W	350mA~1050mA	< 0.5s	6~42V	60VDC
<b>Output LED Power / Current / Voltage</b>									
2-15W/ 350mA /6-42VDC	5-34W/800mA/6-42VDC	3-23W/550mA/6-42VDC	6-40W/1000mA/6-40VDC	4.5-32W/750mA/6-42VDC	3-21W/500mA/6-42VDC	6-40W/950mA/6-42VDC	2.5-19W/450mA/6-42VDC	5.5-38W/900mA/6-42VDC	6-41W/1050mA/6-39VDC
4-27W/650mA/6-42VDC	2.5-17W/400mA/6-42VDC	4-29W/700mA/6-42VDC	3.5-25W/600mA/6-42VDC						

\*Please always check the latest datasheet for technical requirements-----<http://hytronik.com>

# In-track Bluetooth ↔ DALI Emergency Converter

6 Wires 3 Circuits

DALI Output



NEW



HDEM54/N

HDEM54



HDEM54/N



HDEM54

## Key Benefits

- Converts DALI/DALI-2 emergency track light drivers to Bluetooth control
- Compatible with 3-phase systems in tracks
- Supports independent/grouped control for 3 circuits
- Enables simple insertion into the track with no extra wiring
- Enables wireless scheduling of monthly and annual EM tests via the Koolmesh App
- Sends real-time email alerts for faults or test failures
- Ideal for easy retrofit in the track lighting system
- Available in two distinct structural appearances

## Main Functions



DALI Output



Short-circuit protection



Open circuit protection

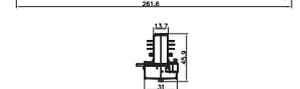
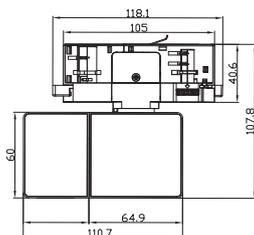
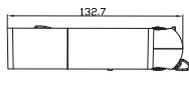
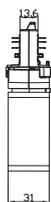


Dimming &amp; tunable white



Supports DT1 emergency LED Drivers

## Mechanical Structure (unit: mm)



## Technical Specifications

Designation	Output	Operating voltage	Stand-by power	IP Rating
HDEM54/N	DALI/DALI-2 I guaranteed: 80mA I max: 100mA U rated: 15VDC	220~240VAC 50/60Hz	<0.5W	IP20

\*Please always check the latest datasheet for technical requirements-----<http://hytronik.com>

# In-track Dimmer

6 Wires 3 Circuits

DALI Output



NEW



HBT54/N

HBT54



HBT54/N



HBT54

## Key Benefits

- Enables Bluetooth dimming and Tunable White control for DALI track systems
- Compatible 3-phase system in-tracks
- Support independent/grouped control for 3 circuits
- Simple insertion into the track without extra wiring
- Enhance the track light system with smart lighting capabilities
- Wireless configuration via Koolmesh App
- Available in two distinct structural appearances

## Main Functions



DALI Broadcast Output



Short-circuit protection



Overload protection

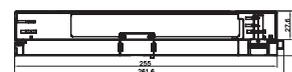
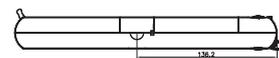
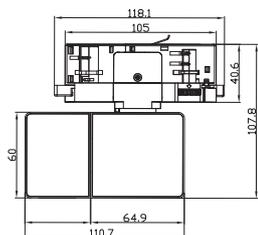
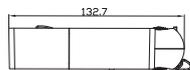


Dimming &amp; tunable white



Supports D4i &amp; DT8 LED Drivers

## Mechanical Structure (unit: mm)



## Technical Specifications

Designation	Output	Operating voltage	Stand-by power	IP Rating
HBT54/N	DALI/DALI-2 I guaranteed: 80mA I max: 100mA U rated: 15VDC	220~240VAC 50/60Hz	<0.5W	IP20

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# In-track DALI Dimmer

4 Wires 1 Circuits

On/Off Control



NEW



HBTD54S/N

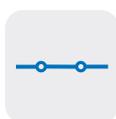
## Key Benefits

- Enables Bluetooth On/Off control for track light systems
- Zero crossing detection circuit to reduce in-rush current
- Emergency self-test function via Koolmesh App
- Simple insertion into the track without extra wiring
- Wireless configuration via Koolmesh App

## Main Functions



On/off control



Short-circuit protection

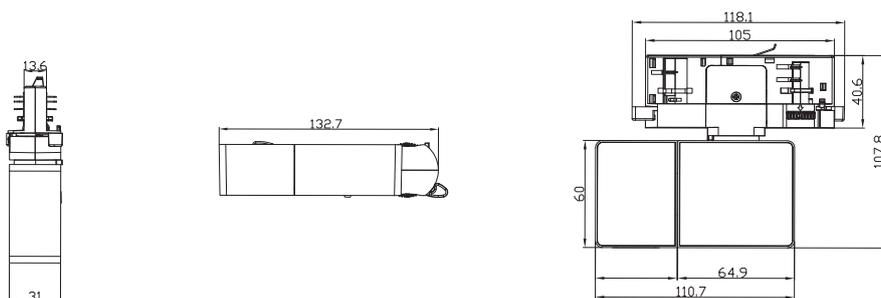


Overload protection



Zero cross detection

## Mechanical Structure (unit: mm)



## Technical Specifications

Designation	Output	Operating voltage	Stand-by power	IP Rating
HBTD54S/N	On/Off Control 400VA(Capacitive) 800W(Resistive)	220~240VAC 50/60Hz	<0.5W	IP20

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# In-track Dimmer

6 Wires 3 Circuits

0/1-10V Output



NEW



HBT54V/N

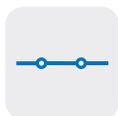
## Key Benefits

- Adds Bluetooth connectivity to 0/1-10V dimming track light systems
- Compatible with 3-phase track systems
- Support independent/grouped control for 3 circuits
- Simple insertion into the track without extra wiring
- Enhance the track light system with smart lighting capabilities
- Wireless configuration via Koolmesh App

## Main Functions



0/1-10V dimming

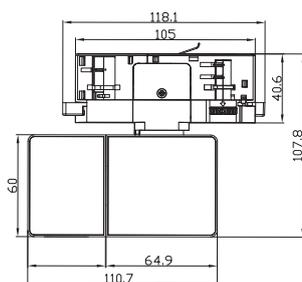
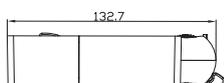
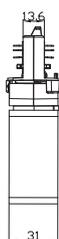


Short-circuit protection



Overload protection

## Mechanical Structure (unit: mm)



## Technical Specifications

Designation	Output	Operating voltage	Stand-by power	IP Rating
HBT54V/N	0/1-10V 400VA(capacitive) 800W(resistive)	220~240VAC 50/60Hz	<0.5W	IP20

\*Please always check the latest datasheet for technical requirements-----<http://hytronik.com>



## A Complete Track Lighting Ecosystem

- Designed to simplify lighting projects, from design and installation to commissioning and future upgrades

### What you get

- Integrated sensors, drivers, dimmers and emergency modules
- Flexible 3-circuit track solutions with 4- and 6-wire options
- Wireless commissioning and system expansion
- Emergency-ready solutions without additional wiring

### Built for real projects

- Start with basic track lighting
- Add smart control, emergency monitoring and system-level components when needed - without changing the track infrastructure

### Next step

- Explore full specifications and compatible modules at [www.hytronik.com](http://www.hytronik.com)

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# Future-proof your projects Track your light with Hytronik



**HYTRONIK**®  
SENSORS & LIGHTING CONTROL

**Koolmesh**®  
— TAILOR MAKE YOUR SOLUTION

Contact us:  
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