180°

360°

Track Light System

Bluetooth®

2026

Website: www.hytronik.com

HYTRONIK®
SENSORS & LIGHTING CONTROL

Koolmesh®
— TAILOR MAKE YOUR SOLUTION

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

Lighting projects shouldn't be limited by wiring complexity oragmented components. The Hytronik Track Light System brings power, contrond intelligence into one unified track — **giving designers, engineers and installershe freedom to build lighting the way they need.**

• Where it makes a difference

Offices
Comfortable lighting with occupancy awareness and daylight - responsive control.
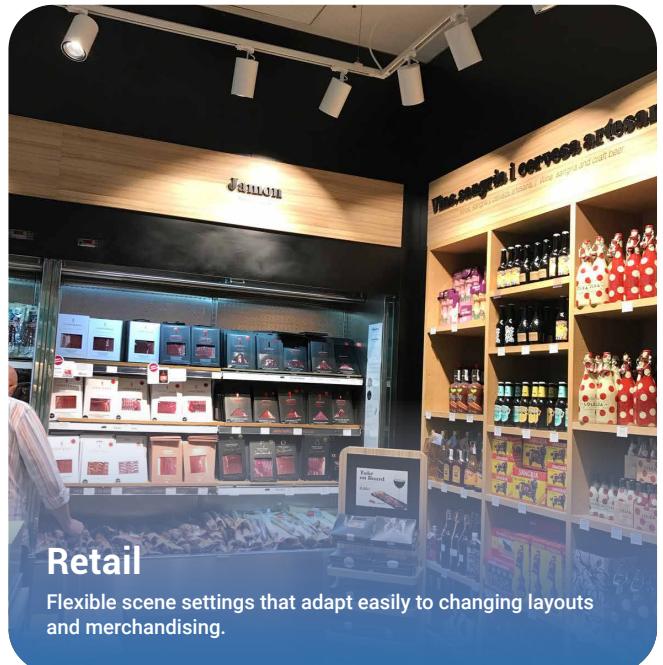
Retail
Flexible scene settings that adapt easily to changing layouts and merchandising.

Museums & Galleries
Precise dimming and stable control to protect artwork and enhance visual experience.
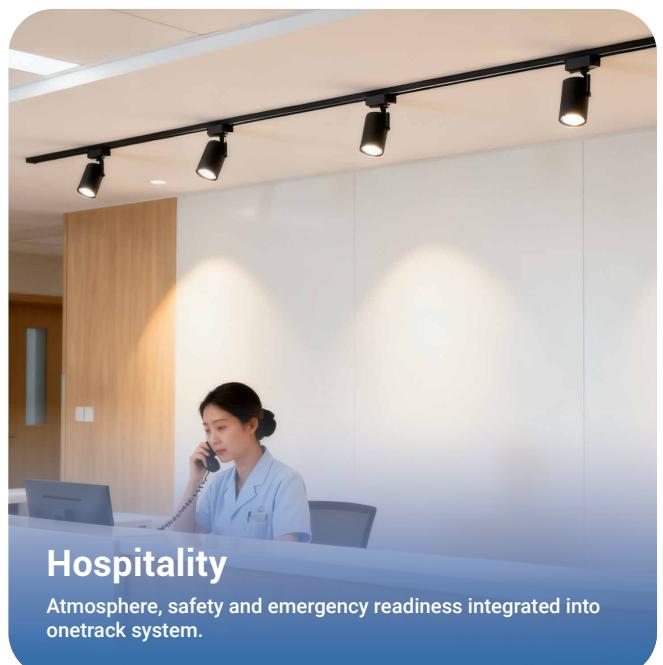
Hospitality
Atmosphere, safety and emergency readiness integrated into onetrack system.

• How it works

A modular track system where sensors, drivers, dimmers and emergencymodules integrate seamlessly into the same track-ready to scale whenprojects grow.

# Why Choose Hytronik Track Light System?

Traditional Track Problems

Multiple suppliers, inconsistent quality
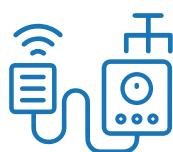
Extra wiring for sensors and controls

Emergency lighting is hard to integrate

No wireless or future-ready option

Hytronik Advantage

■ **Ine complete ecosystem in one track**

bensors, drivers, dimmers and emergency modules designed to work togethe - no fragmented suppliers.

■ **Designed for real-world installations**

4/6 wires with 3 circuits support flexible zoning without complex rewiring.

■ **Scalable by design**

Start with basic track lighting. Expand to smart control and system integratior when needed.

■ **Future-ready architecture**

Compatible with Hytronik system-level components for long-term project evolution.

System Architecture & Core Modules

Everything you need, integrated into one intelligent track.

In-track Sensor

Smart detection ensures lights only run when needed, saving energy and enhancing comfort.

In-track LED Driver

High-performance, DALI and Bluetooth compatible, delivering flicker-free, efficient lighting.

In-track Dimmer

Scene-setting and intuitive brightness control for retail, galleries, and workspaces.

DALI ⟷ Bluetooth Emergency Conveter

Upgrade instantly to wireless Mesh control, enabling remote commissioning and system expansion.

180°

360°

Track Adaptor Options

4 Wires 3 Circuits
6 Wires 3 Circuits

Compatible Track Brands

IVELA · STAFF · NORLUX · GLOBAL · EUTRAC · NUCO

6 Wires track adaptor

4 Wires track adaptor
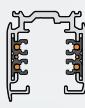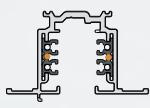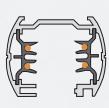
| GLOBAL | GLOBAL | IVELA | STAFF | NORLUX | GLOBAL | EUTRAC | NUCO |
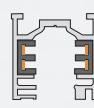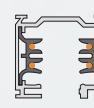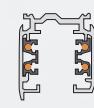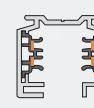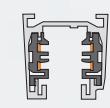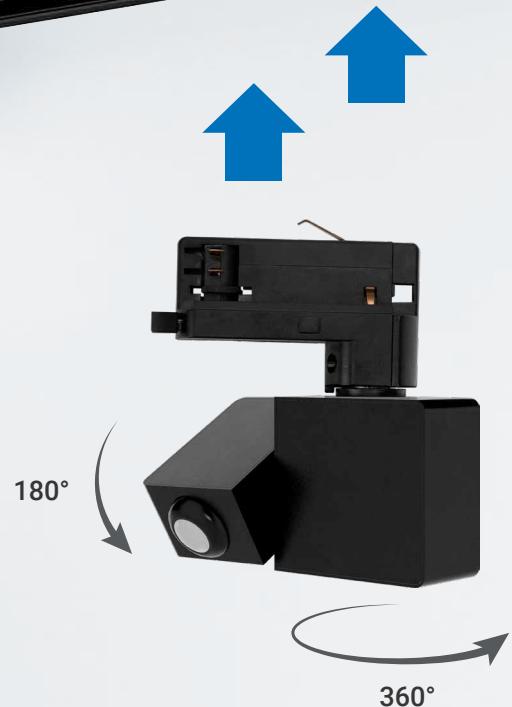
Product Overview
In-track Sensor

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

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

In-track LED Driver

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

In-track Emergency Converter
Bluetooth ↔ DALI

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

*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
NEW HBTD54/N 6 Wires 3 Circuits	220~240VAC	DALI 100mA, 16VDC	√	√	Bluetooth to DALI Converter
 HBTD54 6 Wires 3 Circuits	220~240VAC	DALI/DALI-2 I max:100mA	√	/	Bluetooth to DALI Converter
NEW HBTD54S/N 4 Wires 1 Circuits	220~240VAC	On/Off Control 400VA/800W	√	√	Bluetooth to On/off Relay Control
NEW HBTD54V/N 6 Wires 3 Circuits	220~240VAC	0/1-10V 400VA/800W	√	√	Bluetooth to 0/1-10V Control

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

In-track Sensor

Low-bay   **4 Wires 3 Circuits**   **Bluetooth Receiver**   AC Mains Operation

NEW

180°

360°

HIR62/TKN

Key Benefits

- Occupancy sensor & light sensor
- Compatible 3-phase system in-tracks
- 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 track light system with smart lighting capabilities
- Wireless configuration via Koolmesh app

Detection Range

Height
3m

Range Ø
12m

H:3m

Ø:12m

Mechanical Structure (unit: mm)

87

52

60

64.9

110.7

32.5

32.5

32.5

31

Main Functions

Daylight harvest

100%
Dim
Off

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 | **AC Mains Operation**

HIR63/TKN

HIR60/TKN

NEW

180°

360°

DALI Version: HIR60/TKN
DALI with PSU Version: HIR63/TKN

Key Benefits

- Built-in occupancy and light sensors
- Compatible 3-phase system in-tracks
- 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

Detection Range

Height
3m

Range Ø
12m

H:3m

Ø:12m

Mechanical Structure (unit: mm)

13.6

26
31

132.7

118.1
105
40.6
107.8
116.6
68.8
60
45.4
64.9
110.7

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 currentn via dip switch
- Protective features (short-circuit, overload, open-circuit)
- Logarithmic dimming and linear dimming modes
- Flexible configuration via companion Koolmesh app

Main Functions

ON 1 2 3	PFC >0.93	ANALOGUE
(CC) output via DIP switch	Active PFC design	Flicker free (1-100%)

Mechanical Structure (unit: mm)

136.20 31.00 13.65 31.00 230.52 27.52 43.40 13.65 45.90
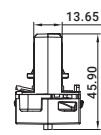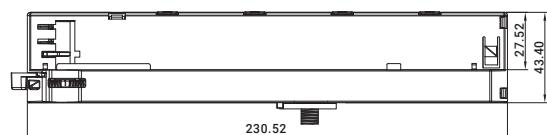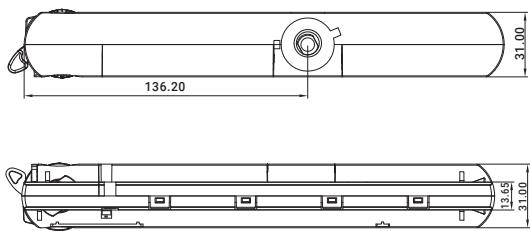
Technical Specifications

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

Output LED Power / Current / Voltage				
2-15W/ 350mA /6-42VDC 3-21W/500mA/6-42VDC 4-27W/650mA/6-42VDC	5-34W/800mA/6-42VDC 6-40W/950mA/6-42VDC 2.5-17W/400mA/6-42VDC	3-23W/550mA/6-42VDC 4-29W/700mA/6-42VDC 5-36W/850mA/6-42VDC	6-40W/1000mA/6-40VDC 2.5-19W/450mA/6-42VDC 3.5-25W/600mA/6-42VDC	4.5-32W/750mA/6-42VDC 5.5-38W/900mA/6-42VDC 6-41W/1050mA/6-39VDC

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

In-track Bluetooth ↔ DALI Emergency Converter

6 Wires 3 Circuits   **DALI Output**

HBEM54/N

HBEM54

**NEW**
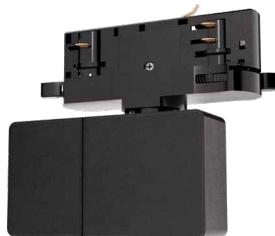
HBEM54/N   HBEM54

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
- It allows for simple insertion into the track without 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
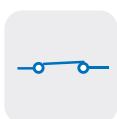
Short-circuit protection

Open circuit protection

Dimming & turnable white

Supports DT1 emergency LED Drivers

Mechanical Structure (unit: mm)
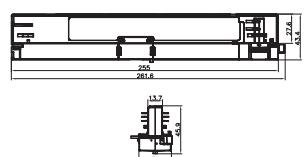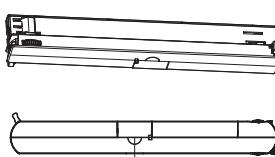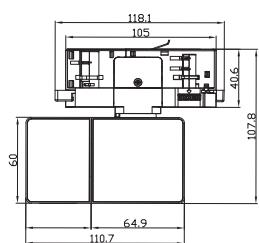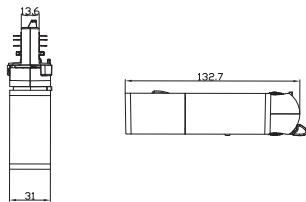
Technical Specifications

Designation	Output	Operating voltage	Stand-by power	IP Rating
HBEM54/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

HBTD54/N

HBTD54

NEW

HBTD54/N

HBTD54

Key Benefits

• Enable Bluetooth dimming and tunable white control for the DALI track system

• 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 & turnable white | Supports D4i & DT8 LED Drivers |
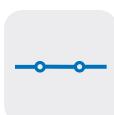
Mechanical Structure (unit: mm)
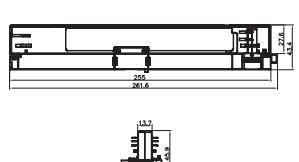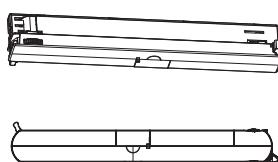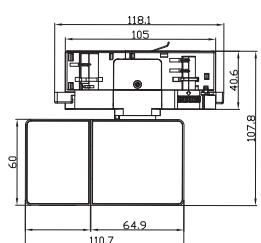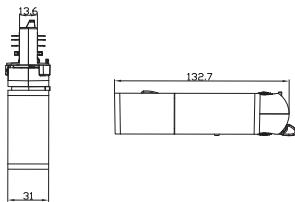
13.6
132.7
31

118.1
105
40.6
107.8
60
64.9
110.7

255
261.6
22.8
13.7
45.9
136.2
31

Technical Specifications

Designation	Output	Operating voltage	Stand-by power	IP Rating
HBTD54/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 DALI Dimmer

4 Wires 1 Circuits   **On/Off Control**

NEW

HBTD54S/N

Key Benefits

• Enable Bluetooth On/Off control for track light system
• 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)
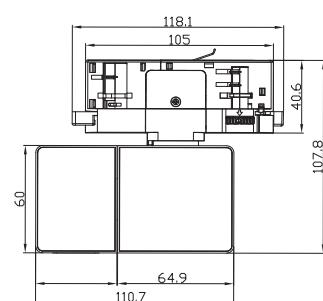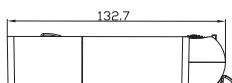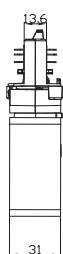
13.6
132.7
31
118.1
105
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107.8
60
64.9
110.7

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

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

In-track Dimmer

6 Wires 3 Circuits   0/1-10V Output

NEW

HBTD54V/N

Key Benefits

• Adds Bluetooth connectivity to 0/1–10V dimming track light 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

Main Functions

0/1-10V dimming

Short-circuit protection

Overload protection

## Mechanical Structure (unit: mm)
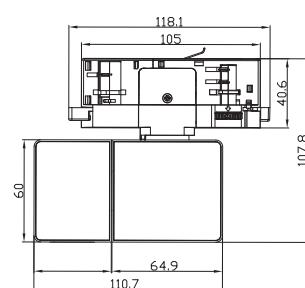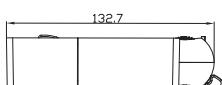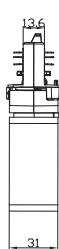
13.6

31

132.7

118.1
105
40.6
107.8
60
64.9
110.7

Technical Specifications

Designation	Output	Operating voltage	Stand-by power	IP Rating
HBTD54V/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

HYTRONIK INTERNATIONAL

Hytronik UK:

Unit 3 Tallow Way, Fairhills Industrial Estate, Irlam, Manchester, M44 6RJ, United Kingdom
E-mail: info@hytronik.com

Hytronik DACH:

Heinrich-Hertz-Straße 15 / 65582 Diez. Germany
E-mail: support_dach@hytronik.com

Hytronik Asia:

Pude Industrial Park, Dushi Village, Pingtan Town,Huiyang District, Huizhou City 516259
E-mail: info@hytronik.com

Hytronik SVK & CZE:

Techlum s.r.o (Slovakia, Slowenia) Staré Grunty 7A 841 04 Bratislava
E-mail: info@techlum.sk

Hytronik Iberia & Latam:

Carrer del Moro Zeid, 11, Piso 3, Ciutat Vella, 46001 Valencia
E-mail: support_es@hytronik.com

Hytronik Finland:
Jaakonkatu 201620 Vantaa FINLAND   E-mail: myynti@exaktor.fi

Hytronik Sweden:
Sven Källfelts Gata 210 426 71 Västra Frölunda   E-mail: info@easyform.se

Future-proof your projects
Track your light with Hytronik

Contact us:
info@hytronik.com

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