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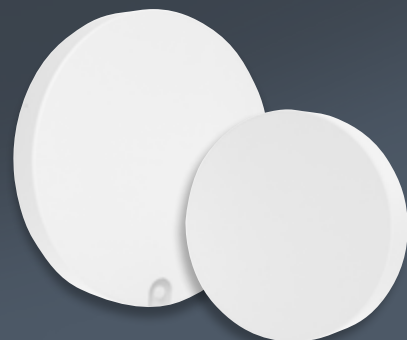
LEDVANCE



WALL AND CEILING LUMINAIRES

SURFACE DISC IS ALL YOU NEED

POWERED THROUGH
OUR ALL-ROUNDER RANGE



THE NEW SURFACE DISC

MODERN FLAT DESIGN, ROBUST PERFORMANCE

The SURFACE DISC wall and ceiling luminaire combines a sleek, flat design with durable housing — the perfect all-rounder for corridors, stairwells, entrance areas and other circulation zones in residential, commercial and public buildings. Easy to install with security lock fittings, it is available in different versions, offering flexible, energy-efficient solutions for every application.

With MULTI SELECT functionality, IP54 and IK10 protection, and a 75 000-hour lifetime, SURFACE DISC delivers durability, versatility and long-lasting performance — a reliable, cost-effective solution for a wide range of indoor areas.

YOUR BENEFITS AT A GLANCE

- + **MODERN FLAT DESIGN** – elegant, robust and versatile, available in two sizes
- + **MULTI COLOUR & MULTI LUMEN** – selectable 3 000 K/4 000 K colour temperatures and lumen outputs
- + **SENSOR & CONTROL OPTIONS** – Microwave (300/220 mm), PIR, DALI-2 and TRIAC-DIM options (300 mm only)
- + **ALL-ROUNDER RANGE** – comprehensive portfolio for various spaces and functions; emergency versions available on 300 mm





SURFACE DISC FAMILY OVERVIEW

SURFACE DISC 300

ON/OFF

Simple on/off control

MICROWAVE SENSOR

With wired leader-follower and corridor function

PIR SENSOR

With wired leader-follower and corridor function

DALI-2

Digital dimming, integration with light management systems

TRIAC (DIM)

Phase-cut dimming

EMERGENCY

All types as emergency lighting version available



SURFACE DISC 220

ON/OFF

Simple on/off control

MICROWAVE SENSOR

Microwave sensor with corridor function

CHOOSING THE RIGHT

PIR SENSOR

PIR sensors efficiently detect changes in infrared radiation, making it easy to sense moving people



SENSOR TECHNOLOGY

PIR: detects infrared radiation within a certain distance. The sensor registers when the IR signal moves from one of its facets to another, thereby sensing movement.

YOUR ADVANTAGES

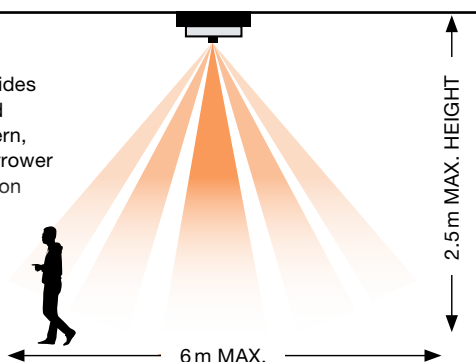
- Cost-effective and energy-efficient
- Easy to install and low-maintenance
- Reliable motion detection via body heat (infrared) and its movement
- No active transmission of signals (passive detection)

APPLICATION AREAS

- Narrow staircases and corridors
- Side rooms and auxiliary areas
- Areas with moving objects (non IR) to avoid false sensing as well as active signal-sensitive areas

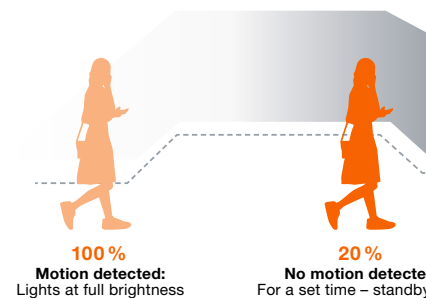
PIR TECHNOLOGY

Direct infrared detection provides a concentrated coverage pattern, resulting in narrower and more person focused coverage.



SURFACE DISC SENSORS: OPTIONAL CORRIDOR FU

Corridor lights automatically balance energy savings with safety. Lights remain at a low standby level and reach full brightness when motion is detected, then dim back after inactivity instead of switching off completely.



SENSOR

MICROWAVE SENSOR

Microwave sensors emit electromagnetic waves to detect movement precisely

SENSOR TECHNOLOGY

Microwave: emits continuous signals that are reflected by objects. The sensor detects movement based on changes in the reflection time pattern.

YOUR ADVANTAGES

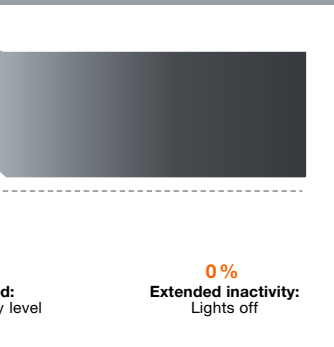
- Detects any kind of motion
- Detection distance can be limited to avoid sensing through obstacles (e.g. glass, thin walls) and interfering with other devices
- Stable performance during temperature fluctuations
- Sensor is placed inside the housing which means the original luminaire design can be retained

APPLICATION AREAS

- Staircases, corridors, and open spaces
- Areas requiring reliable motion detection regardless of the temperature
- Wide areas with people and moving objects (e.g. cars)



FUNCTION



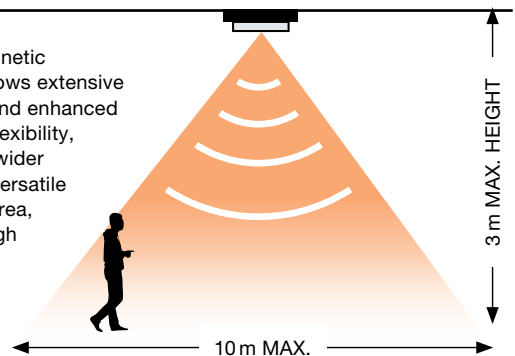
LEADER-FOLLOWER FUNCTION

A SURFACE DISC sensor (PIR or Microwave) luminaire acts either as a leader or follower which can send or receive commands to act simultaneously. Leader overwrites the settings of follower in this case. Sensor function of followers are turned off.

This leader-follower function requires a wired connection.

MICROWAVE TECHNOLOGY

Electromagnetic sensing allows extensive coverage and enhanced detection flexibility, creating a wider and more versatile coverage area, even through obstacles.



LIGHT MANAGEMENT SURFACE DISC DALI



Example of a wired corridor lighting plan with SURFACE DISC DALI, control unit and sensors.

CHALLENGE

- Ensure lighting is available where and when needed in the corridor
- Use existing or new wiring efficiently
- Provide full coverage with no dark zones
- Enable automatic movement detection for comfort and maximum energy efficiency

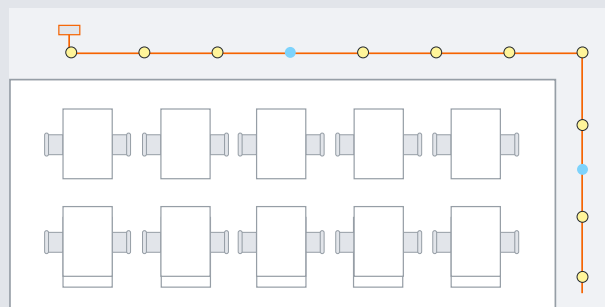
SOLUTION

- Use LEDVANCE DALI control units with the DALI-2 LS-PD sensor
- Provide a proven wired corridor lighting solution
- Automatically adjust lights to presence and ambient
- Partition lighting zones to save energy and CO₂
- Integrate seamlessly with VIVARES light management for added functionalities and a 7-year system guarantee without registration







REALISATION

FLOORPLAN:

CORRIDOR DIMENSIONS: 30 m × 2.5 m + 5 m × 2.5 m/
CEILING HEIGHT: 2.70 m – 2.80 m



LIST OF MATERIALS

Product picture	Image on floorplan	Designation	EAN	QTY
		SURFACE DISC DALI: SF DISC DA 300 V 21W 83040	4099854640520	10
		SENSOR: DALI-2 LS-PD-40X5 IR CI	4058075843868	2
		POSSIBLE CONTROL UNITS: FLEX CU DALI-2 TW OR FLEX CU DALI-2 FM TW	4058075843844/ 4058075841901	1

COMPONENTS

SENSOR

- Wide detection area optimised for corridors (up to 40m)
- DALI-2 certified input device
- Occupancy detection via passive IR element
- Light sensing up to 2000 lx
- Adapter for ceiling mounting IP54

CONTROL

- Automatic control to adapt the light to everyone's needs
- Commissioning via BT app
- Up to 32 devices, such as luminaires + sensors can be controlled

SURFACE DISC RANGE



Are you interested in our services for your projects?
You can reach us at contact@ledvance.com
or by phone on +49 89 780673-600
All the information on successful projects can be
found here: ledvance.com/projects



Product name	EAN (GTIN)	Replacement for	W	Im	lm/W	K	L80 ¹	°	⤴	L x W x H [mm] Ø x H [mm]	Light No.
SURFACE DISC											
SF DISC 220 V 14W ML 83040	4099854640421	1 x 18 W CFLp	14/9/7	1680/1080/720	120	3000/4000	75000	130	—	220 x 52	1
SF DISC 300 V 21W ML 83040	4099854640445	1 x 26 W CFLp	21/15/9	2520/1800/1080	120	3000/4000	75000	125	—	300 x 56	2
SURFACE DISC SENSOR MICROWAVE											
SF DISC SNM 220 V 14W ML 83040	4099854640469	1 x 18 W CFLp	14/9/7	1680/1080/720	120	3000/4000	75000	130	—	220 x 52	1
SF DISC SNM 300 V 21W ML 83040	4099854640483	1 x 26 W CFLp	21/15/9	2520/1800/1080	120	3000/4000	75000	125	—	300 x 56	2
SURFACE DISC SENSOR PIR											
SF DISC SNP 300 V 21W ML 83040	4099854640506	1 x 26 W CFLp	21/15/9	2520/1800/1080	120	3000/4000	75000	125	—	300 x 56	3
SURFACE DISC DALI											
SF DISC DA 300 V 21W 83040	4099854640520	1 x 26 W CFLp	21	2520	120	3000/4000	75000	125	DALI2	300 x 56	2
SURFACE DISC DIM											
SF DISC DIM 300 V 21W 83040	4099854640544	1 x 26 W CFLp	21	2520	120	3000/4000	75000	125	PHASE CUT	300 x 56	2
SURFACE DISC EMERGENCY											
SF DISC EL 300 V 21W ML 83040	4099854640568	1 x 26 W CFLp	21/15/9	2520/1800/1080	120	3000/4000	75000	125	—	300 x 56	2
SURFACE DISC EMERGENCY SENSOR MICROWAVE											
SF DISC EL SNM 300 V 21W ML 83040	4099854640582	1 x 26 W CFLp	21/15/9	2520/1800/1080	120	3000/4000	75000	125	—	300 x 56	2
SURFACE DISC EMERGENCY SENSOR PIR											
SF DISC EL SNP 300 V 21W ML 83040	4099854640605	1 x 26 W CFLp	21/15/9	2520/1800/1080	120	3000/4000	75000	125	—	300 x 56	3
SURFACE DISC EMERGENCY DALI											
SF DISC EL DA 300 V 21W 83040	4099854640629	1 x 26 W CFLp	21	2520	120	3000/4000	75000	125	DALI2	300 x 56	2
SURFACE DISC EMERGENCY DIM											
SF DISC EL DIM 300 V 21W 83040	4099854640643	1 x 26 W CFLp	21	2520	120	3000/4000	75000	125	PHASE CUT	300 x 56	2

SENSOR PROPERTIES

Product name	Sensor technology	Detection threshold of daylight sensor	Detection range of motion sensor	Sensor detection angle	Sensor controlled switching time
SF DISC SNM 220 V 14W ML 83040	Microwave	5...170 lx	2...6 m	120 °	5 s...20 s
SF DISC SNM 300 V 21W ML 83040	Microwave	5...170 lx	2...6 m	120 °	5 s...20 s
SF DISC SNP 300 V 21W ML 83040	Passive infrared (PIR)	5...170 lx	1.5...3 m	360 °	5 s...60 s
SF DISC EL SNM 300 V 21W ML 83040	Microwave	5...170 lx	2...6 m	120 °	5 s...20 s
SF DISC EL SNP 300 V 21W ML 83040	Passive infrared (PIR)	5...170 lx	1.5...3 m	360 °	5 s...60 s

EMERGENCY LIGHTING PROPERTIES

Product name	Battery life in emergency operation mode	Type of emergency operation test	Type of emergency light operation	Luminous flux in emergency operation mode	Type of Battery
SF DISC EL 300 V 21W ML 83040	3 h	Automatic	Non-maintained, Maintained	180 lm	LiFePO4
SF DISC EL SNM 300 V 21W ML 83040	3 h	Automatic	Non-maintained, Maintained	180 lm	LiFePO4
SF DISC EL SNP 300 V 21W ML 83040	3 h	Automatic	Non-maintained, Maintained	180 lm	LiFePO4
SF DISC EL DA 300 V 21W 83040	3 h	Automatic	Non-maintained, Maintained	180 lm	LiFePO4
SF DISC EL DIM 300 V 21W 83040	3 h	Automatic	Non-maintained, Maintained	180 lm	LiFePO4



IoT = Internet of Things. Supports data transfer via gateway to cloud-based monitoring platforms, such as LEDVANCE VIVARES Cloud.

¹ t[h]: L70/B50 @ 25 °C (T_a)/t[h]: L80/B10 @ 25 °C (T_a)

² Refer to www.ledvance.com/guarantee for precise conditions

ABOUT LEDVANCE

With business activities in over 140 countries, LEDVANCE is one of the world's leading general lighting companies. Emerging from OSRAM's general lighting division, LEDVANCE's portfolio includes LED lamps and luminaires, intelligent lighting products, traditional lamps and renewable energy solutions.
#POWERTHROUGHLIGHT



LEDVANCE

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