

ENG

LUMATRIS | SURFACE-MOUNTED LUMINAIRE

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LED





LUMATRIS. EVOLUTION IN MACHINE LIGHTING.

In mechanical engineering, competitive ability equals the sum of innovative components and functions. LUMATRIS now makes the latest LED technology available to medium- and large- volume machines. It economically transforms the direct lighting characteristic of LEDs to provide glare-free diffuse lighting.

- Maintenance-free: LED life of up to 50,000 hours and more
- Light Forming Technology for optimum light control and 30% more efficiency
- Extremely resource-friendly operation thanks to eco mode
- Flicker-free light with no IR or UV content
- Unlimited functionality even after frequent switching
- Direct, reverse-polarity protected 24 V DC plug with no additional components
- Rear or side plug connection with an M12 plug connector.
- Flush-mounting and surface mount options
- Robust aluminium and safety glass housing for the toughest application conditions
- IP68-1m & IPX9K system of protection
- For ambient temperatures of up to 45 °C
- No burning in of cooling agents or lubricants thanks to low surface temperature of max. 58 °C
- Resistance-tested with many cooling agents and lubricants

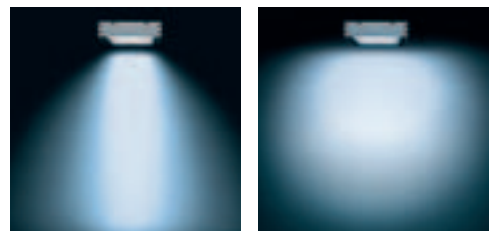


OPTIMUM ILLUMINATION – PROTECTING RESOURCES.

The selection of special high-performance LEDs and the use of Light Forming Technology* with 30% more efficiency make LUMATRIS one of the most energy-efficient light solutions in this light class.

In addition, the power consumption can be further reduced by using the eco mode if full light output is not needed for less critical visual tasks. This solution shuts down every second LED, which – even in eco mode – prevents the dangerous stroboscope effect that can occur when the luminaire is dimmed. The luminaire can be switched to eco mode by either applying 24 V to one pin, or by shorting two pins.

* selectable, see overview of variations



LUMATRIS. SIMPLY MORE POSSIBILITIES.



More Applications

With two different lengths, LUMATRIS introduces the advantages of modern LED light technology to machines – even in large-volume workrooms.

The luminaire is optionally available with Light Forming Technology* instead of a diffuser. In addition to glare-free properties and increased efficiency, its narrower light distribution facilitates a wide range of tasks.

The high-tech electronics are embedded in a housing with optimum heat management, making LUMATRIS suitable for higher ambient temperatures of up to 45 °C.

The IP68-1m & IPX9K system of protection allows it to be used in the toughest conditions.

* selectable, see overview of variants

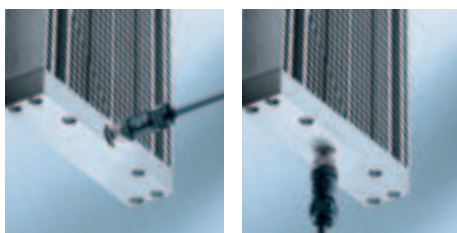


More Installation Possibilities

Threaded channels and T-slots on the back of the LUMATRIS make it possible to integrate or mount the luminaire in or onto the machine wall without additional accessories. In order to individually optimize workroom installation, further options are available:

- Mounting Frame*: Easier flush-mounting of the LUMATRIS in the machine wall and to help prevent dirt and chip entrapment.
- Mounting Brackets*: Easier positioning of the LUMATRIS where access is more difficult.
- Jointed Head*: Simple and precise positioning of the LUMATRIS for better illumination at different angles.

* Accessories



More Connection Possibilities

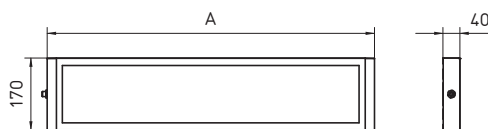
The LUMATRIS is particularly easy to connect thanks to its M12 plug connector. The connection is reverse-polarity protected so that a faulty terminal contact does not result in negative consequences. The advantage of this plug connector is that it is simple to replace the cable in the event of a defect.

It can be connected on the side or rear so that it does not get in the way of any type of installation. Additional connection variations are available upon request, for example, pre-assembled or for customer-side assembling, also with cable protection system.

TECHNICAL DATA



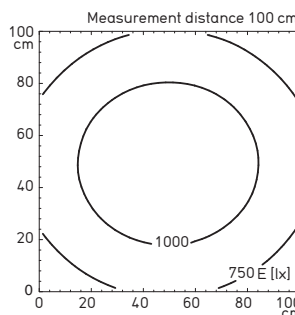
efficient^{light}



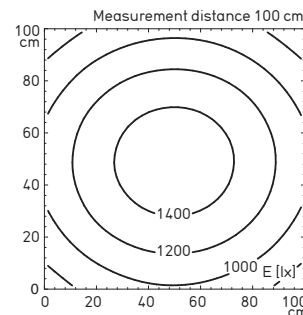
Tip: For the precise assembly dimensions, please request a detailed drawing.

Features at a glance

- 90 or 180 LEDs
- Color temperature daylight white 5,800 K, color reproduction Ra > 80
- Glare-free with diffuser or Light Forming Technology
- Colorless anodized aluminium housing, silver-painted side parts made of die-cast zinc, 4 mm thick safety glass
- Flush-mounting or surface mount
- Two-step switchable operation (standard or eco mode)
- System of protection IP68-1m and IPX9K in accordance with DIN 40050-9; class of protection III
- Supplied without mains lead, side or rear connection via M12 plug connector
- Mounting frame 420 mm** (408 001 037 - 005 181 21), mounting frame 770 mm (408 001 034 - 005 142 065), pair of mounting brackets (408 001 035 - 005 142 68), jointed head (408 001 033 - 005 142 62), connecting socket and operating devices (see catalog) as accessories



Illuminance based on the example of 72 W without Light Forming Technology



Illuminance based on the example of 72 W with Light Forming Technology

22 – 26 VDC

| CONSUMPTION | OPERATING DEVICE | DIMENSIONS | SPECIAL FEATURE | E_m / E_{max}^* | MODEL | ORDER NUMBER |
|-------------|------------------|---------------------|--|---------------------------|------------|--------------------------|
| 36W** | – | A = 420 mm x 170 mm | Cable connection to rear Light Forming Technology | 595/785 lx ¹ | MSAL 90 S | 112 573 000 - 004 994 89 |
| 36W** | – | A = 420 mm x 170 mm | Cable connection to side Light Forming Technology | 595/785 lx ¹ | MSAL 90 S | 112 573 001 - 005 142 71 |
| 36W** | – | A = 420 mm x 170 mm | Cable connection to side | 473/626 lx ¹ | MSAL 90 S | 112 573 002 - 005 142 74 |
| 36W** | – | A = 420 mm x 170 mm | Cable connection to rear | 473/626 lx ¹ | MSAL 90 S | 112 573 003 - 005 142 77 |
| 72 W | – | A = 770 mm x 170 mm | Cable connection to rear Light Forming Technology | 1166/1510 lx ¹ | MSAL 180 S | 112 574 000 - 004 994 93 |
| 72 W | – | A = 770 mm x 170 mm | Cable connection to side Light Forming Technology | 1166/1510 lx ¹ | MSAL 180 S | 112 574 001 - 005 111 40 |
| 72 W | – | A = 770 mm x 170 mm | Cable connection to side | 926/1201 lx ¹ | MSAL 180 S | 112 574 002 - 005 111 44 |
| 72 W | – | A = 770 mm x 170 mm | Cable connection to rear | 926/1201 lx ¹ | MSAL 180 S | 112 574 003 - 005 111 47 |

* E_m = medium illuminance; E_{max} = maximum illuminance; ¹ Measuring range 100 cm x 100 cm / Measuring distance 100 cm; ** Available from the beginning of 2012

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