

# VARIOLINE LAMP

## LED 021/022

LED 021  
Movement sensor and  
screw fixing

LED 022  
On/off switch  
and magnet fixing

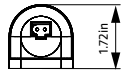


- > High luminous flux
- > Integrated power unit
- > Durable and maintenance-free LED technology
- > Daisy chain
- > On/off switch or movement sensor
- > Magnet or screw fixing

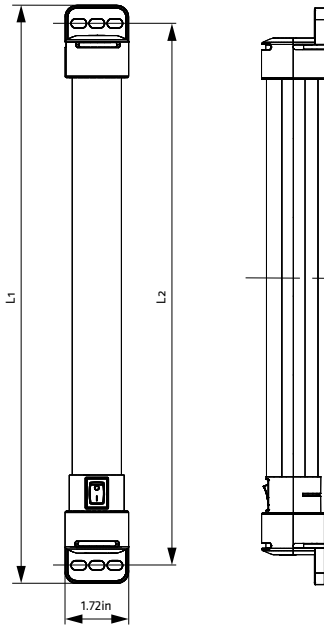
The LED 021/022 Varioline is a powerful and compact LED lamp for use in enclosures. Its LED tube emits more than 1,000/1,700 Lm at only 11 W/16 W power consumption, thereby illuminating even very large enclosures in their full depth and height. The glare-free, 360° rotatable LED tube uses Mid-power LEDs with a service life of 60,000 h. The emitted daylight color of 6,500 K provides safety for the user by a natural and non-fading color reproduction.



LED 021/022  
magnet or  
screw fixing



LED 021/022  
side view



LED 021 (Size 1)  
L1 = 15.6 in  
L2 = 14.6 in

LED 022 (Size 2)  
L1 = 23.4 in  
L2 = 22.4 in

### TECHNICAL DATA

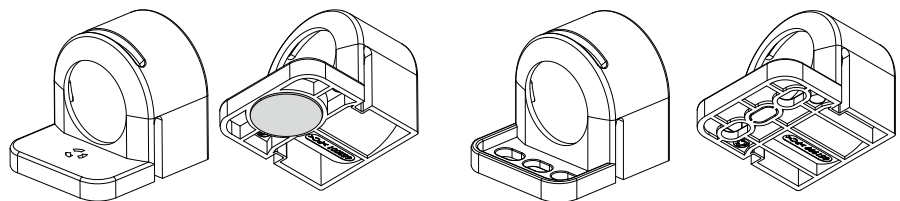
|                                  |   |
|----------------------------------|---|
| Power consumption                | max. 11 W/16 W  |
| Operating voltage                | AC 100 – 240 V, 50/60 Hz (min. AC 90 V, max. AC 265 V)                            |
| Luminous flux                    | 1,080 Lm/1,730 Lm   |
| Lamp type                        | LED, angle of radiation 120°<br>light color: daylight, color temperature: 6,500 K |
| Service life                     | 60,000 h at +20 °C (+68 °F)   |
| Connection                       | 2-pole connector with snap lock<br>AC: max. 2.5 A / AC 240 V, color: white        |
| Mounting                         | magnet fixing or screw fixing (M5), torque 2 Nm max.                              |
| Casing                           | plastic, translucent  |
| Dimensions                       | see drawings  |
| Weight                           | approx. 0.2 kg/0.3 kg   |
| Operating/Storage temperature    | -30 to +40 °C (-22 to +104 °F) / -40 to +85 °C (-40 to +185 °F)                   |
| Operating/Storage humidity       | max. 90 % RH (non-condensing)   |
| Protection type/Protection class | IP20 / II (double insulated)  |

**Mounting options:** The lamps are available with magnet fixing for easy positioning in any steel cabinet or enclosure. A classic is the LED 021/022 with screw fixing. With a total rotation angle of 360° it provides perfect illumination.

**Note:** The lamp must not be used for household lighting.

View of magnet fixing

View of screw fixing



| Size 1: L1 = 400 mm       |                          | Size 2: L1 = 600 mm       |                          | Switch                           | Approvals |    |
|---------------------------|--------------------------|---------------------------|--------------------------|----------------------------------|-----------|----|
| Art. No.<br>Magnet fixing | Art. No.<br>Screw fixing | Art. No.<br>Magnet fixing | Art. No.<br>Screw fixing |                                  |           |    |
| 02100.0-30                | 02100.0-00               | 02200.0-30                | 02200.0-00               | On/off switch                    | VDE       | UL |
| 02110.0-30                | 02110.0-00               | 02210.0-30                | 02210.0-00               | PIR movement sensor <sup>1</sup> | VDE       | UL |
| 02120.0-30                | 02120.0-00               | 02220.0-30                | 02220.0-00               | without switching option         | VDE       | UL |

<sup>1</sup> approx. 5 min. fixed switch-on duration

## ACCESSORIES LED 021/022

Connectors and cables for electrical connection are not included in the delivery of the LED 021/022. These parts can be ordered separately. Sets, consisting of lamp and accessories, are available on request. Likewise, custom cables are available on request.

## LAMP-SET WITH FEMALE CONNECTOR

Varioline LED enclosure lamps are also available as a set including the connector Art. No. 264057. Simply add -0003 to the article number of the required lamp. For example: 02100.0-30-0003

## FEMALE / MALE CONNECTORS



Photo: Female connector, Art. No. 264057



Photo: Male connector, Art. No. 264058

| Art. No. | Model            | Voltage type | Color | Use for      | Wire cross-section <sup>1</sup>     | Approvals |
|----------|------------------|--------------|-------|--------------|-------------------------------------|-----------|
| 264057   | female connector | AC           | white | power input  | 0,5-2,5 mm <sup>2</sup> (AWG 14-20) | VDE + UL  |
| 264058   | male connector   | AC           | white | power output | 0,5-2,5 mm <sup>2</sup> (AWG 14-20) | VDE + UL  |

<sup>1</sup> applies to rigid and stranded wire. Wire end ferrules must be used when connecting with stranded wires

## CONNECTION CABLE WITH FEMALE CONNECTOR AND OPEN END



Photo: Connection cable, Art. No. 244356

| Art. No. | Model  | Length | Voltage type | Color                          | Use for     | Approvals <sup>2</sup> |
|----------|--|--------|--------------|--------------------------------|-------------|------------------------|
| 244356   | connection cable 2 x 1.5 mm <sup>2</sup> with female connector | 2.0 m  | AC           | connector: white; cable: white | power input | VDE                    |
| 244357   | connection cable 2 x AWG 16 with female connector              | 2.0 m  | AC           | connector: white; cable: white | power input | VDE + UL               |

<sup>2</sup> applies only to the individual components (cable and connectors)

## EXTENSION CABLE WITH 2 CONNECTORS FOR DAISY CHAIN CONNECTION

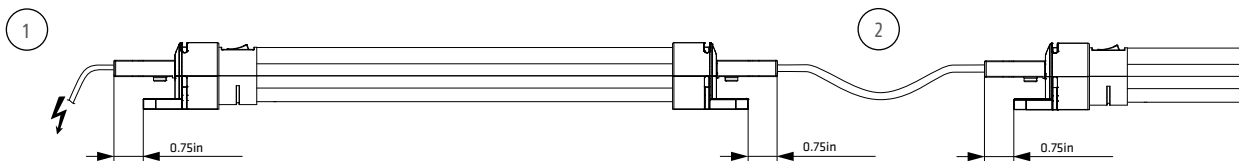


Photo: Extension cable, Art. No. 244358

| Art. No. | Model   | Length | Voltage type | Color                           | Use for     | Approvals <sup>2</sup> |
|----------|---|--------|--------------|---------------------------------|-------------|------------------------|
| 244358   | extension cable 2 x 1.5 mm <sup>2</sup> with 2 connectors | 1.0 m  | AC           | connectors: white; cable: white | daisy chain | VDE                    |
| 244359   | extension cable 2 x AWG 16 with 2 connectors              | 1.0 m  | AC           | connectors: white; cable: white | daisy chain | VDE + UL               |

<sup>2</sup> applies only to the individual components (cable and connectors)

## CONNECTION EXAMPLE



This illustration shows the LED 021/022 lamp in a daisy chain application. The lamps are conveniently connected via connection plugs - up to 8 lamps max. can be daisy-chained this way. The snap lock connectors ensure a stable electrical connection even if subjected to heavy vibration. The connection example shows a AC 230 V application, using the following cables: connection cable with female connector, Art. No. 244356 (1); daisy chain extension cable with 2 connectors, Art. No. 244358 (2).

Female/male connectors are also available to assemble cables in non-standard lengths.