Safety instructions

Danger!

Danger caused by wrong mounting or handling!

Wrong mounting or handling of this unit can result in serious injuries or death.

- First read these instructions and, where appropriate, any other instructions and information attached to the unit!
- Please observe the warnings and notes included in the instructions and attached to the unit!

Danger!

This symbol identifies items that may directly result in serious injuries or death in case of non-observance or wrong handling.

Warning!

This symbol identifies items that may result in serious injuries or death in case of non-observance or wrong handling.

Caution!

This symbol identifies items that may result in injuries or material damage in case of non-observance or wrong handling.

Note!

This symbol identifies items that are of importance for handling and operation.

Safety instructions

Danger!

Explosion hazard!

Operating the light in rooms subject to explosion hazards can trigger an explosion.

- Operate in rooms not subject to explosion hazards only!

Caution!

Damage caused by wrong mains voltage!

A wrong mains voltage might damage or destroy the light.

- The connection must only by carried out by a skilled electrician!
- Before putting the light into operation, the user has to check whether the mains voltage is identical to the rated voltage specified on the rating plate!

Warning!

Danger due to electrical shock in case of contact!

Maintenance or repair work carried out incorrectly may result in serious injuries or death.

- Disconnect the light from the mains before carrying out any maintenance or repair work!
- Maintenance and repair work must be carried out by a skilled electrician only!
- Only parts released by the manufacturer may be used as spare parts!

The manufacturer cannot be held liable for damage caused by using the unit for purposes contrary to the designated use or by ignoring safety instructions and warnings.

General

Designated use

Intended purpose:
Machine light - light to be mounted on/built into machines

Place of use:
Exclusively suited for rooms not subject to explosion hazards.

Operating mode:
The luminaire is designed for continuous operation.

Abbreviations and symbols

Safety instructions!

Important information!

Unit corresponds to international protection class III (Operation with safety extra low voltage SELV)

Please observe the disposal instructions!

The luminaire is suitable for mounting on normally inflammable surfaces

LED Light-emitting diode

VDE approval

ENEC approval

SEV approval

CE
Conformity mark

The manufacturer cannot be held liable for damage caused by using the unit for purposes contrary to the designated use or by ignoring safety instructions and warnings.

Introduction

FLAT LED

The **FLAT LED** supplements the **Waldmann** product range of LED machine lights. To extend the range of LED lights for the immediate machining area (e.g. **SPOT LED**), which is already offered by **Waldmann,** the new light series **FLAT LED** was developed.

With the new **FLAT LED** series, **Waldmann** creates a new light series especially for the basic illumination of machine tools and machining centres. The extremely flat design allows the customer a better use of the working area without renouncing the usual great lighting power of the **Waldmann** machine lights.

The use of light emitting diodes (LED) instead of halogen lamps allows a significantly higher service life to be achieved. This results in fewer machine downtimes due to maintenance work.

FLAT LED lights of **Waldmann** are available as mounted lights or as built-in lights. The lights are available for alternating current (AC) and for direct current (DC).

A housing made of anodized aluminum and a protective safety glass pane are resistant to hot and sharp-edged chips. The housing is water-proof and resistant to coolants and lubricants.

MYAL = Light for mounting on machines
MYEL = Light to be built into machines

Mounting

Caution

Danger due to insufficient fastening!

When mounted incorrectly, the light may fall down.

- The light must be positioned stable on the mounting surface by means of screws or other suitable adapter units.
- When using mounting elements which have not been proposed by the manufacturer, the user has to verify their reliability!
- Mounting to an even surface suitable for mounting only!
- Mounting by a skilled electrician only!

Installation dimensions

The hole pattern for the mounted light MYAL can be found in the drawing Fig. 51 on page 27.

The required installation dimensions for the mounted light MYEL are indicated in the drawing Fig. 52 on page 27.

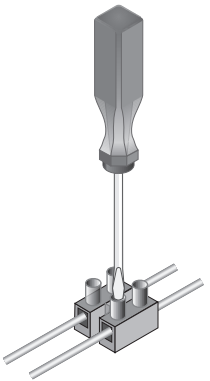
Note: For special models, the hole pattern can differ from the standard hole pattern.

Fastening with screws

When mounting the light, tighten the screws only slightly at all fixing points.

When finally fastening the light, tighten alternately the screws from the top left towards the bottom right and from the top right towards the bottom left.

Connection



Caution!

Damage caused by wrong mains voltage!

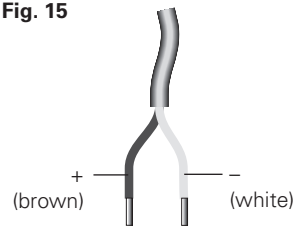
A wrong mains voltage might damage or destroy the light.

- The connection must only by carried out by a skilled electrician!
- Before putting the light into operation, the user has to check whether the mains voltage is identical to the rated voltage specified on the rating plate!
- The terminal strip included in the delivery must be used for connection.
- The light has to be connected according to the applicable regulations for installation.

Version DC

The luminaire is supplied with free strand ends for connection to safety extra low voltage (SELV).

Fig. 15

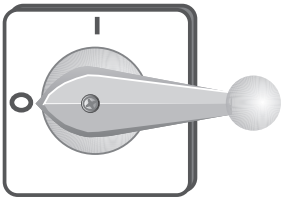


Note: The light is protected against polarity reversal. The function is also guaranteed when the two lines are interchanged.

Note for USA

This device must be connected to a power supply unit of class 2!

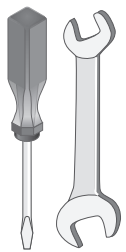
Operation



Switching the light on and off

The standard equipment of the light does not include a switch of its own. It is switched on/off via external circuit elements or connectors.

Maintenance and repair



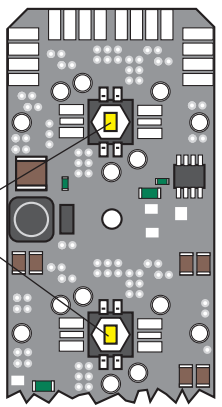
Warning!

Danger due to electrical shock in case of contact!

Maintenance or repair work carried out incorrectly may result in serious injuries or death.

- Disconnect the light from the mains before carrying out any maintenance or repair work!
- Maintenance and repair work must be carried out by a skilled electrician only!
- Only parts released by the manufacturer may be used as spare parts!

Fig. 17



Defective light source

The lights is equipped with light-emitting diodes (LEDs). The useful life of LEDs exceeds by far that of conventional lamps (e.g. light bulbs). Therefore, a light source replacement is rarely necessary.

If nevertheless one of the 6 LEDs should break down, the entire LED module [Fig. 17] must be replaced.

Care

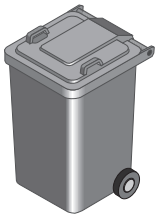
Note!

Risk of damage through wrong care!

Wrong care may destroy the unit.

- Clean the transparent cover at regular intervals!
- Clean the light parts only with a cloth impregnated with a suitable household cleaning agent!
- Make sure the agents used are compatible with paints and plastics!

Disposal



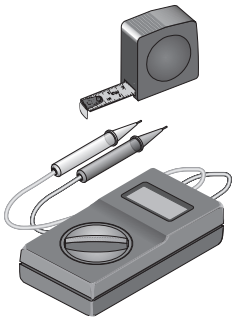
Note!

Environmental hazard!

Wrong disposal endangers our environment.

- Return the unit at the end of its useful life to the available recycling systems!

Technical data



General:

Protection class	III
Ingress protection	IP67
Operating mode:	Continuous operation

Technical safety check according to EN 60598-1

Rating according to DIN 60825-1 and VDE 0837 Laser class 1

Dimensions:

Light approx. 284 x 74 x 20 mm
Connecting cable approx. 3000 mm

Electrical values:

MYAL 6 S (AC)
Operating voltage 10-30 V AC
Frequency range (AC) 50/60 Hz
Power consumption approx. 13 W

MYAL 6 S (DC)
Operating voltage 10-40 V DC
Power consumption approx. 13 W

MYEL 6 S (AC)
Operating voltage 10-30 V AC
Frequency range (AC) 50/60 Hz
Power consumption approx. 13 W

MYEL 6 S (DC)
Operating voltage 10-40 V DC
Power consumption approx. 13 W

Caution!

Risk of damage due to differences from the standard design.

If required, this series of units will be supplemented by further variants. The technical data may therefore be subject to modifications.

➢ Always observe the data and symbols given on the rating plate!

Appendix

Fig. 51

MYAL 6 S
Hole pattern

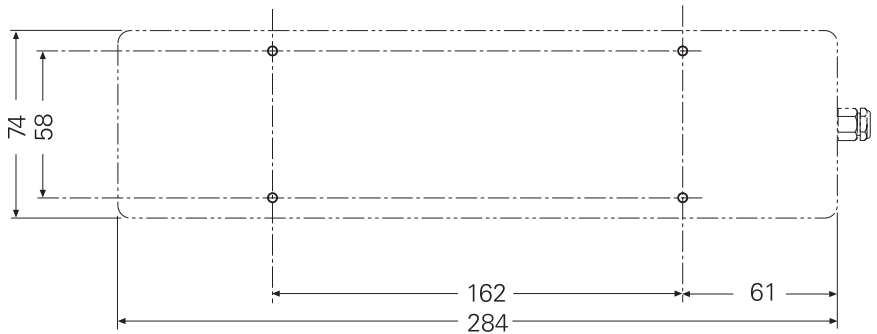


Fig. 52

MYEL 6 S
Installation dimensions