

GESCHÄFTSFÜHRER:
Uwe Hagenbach
Bernhard Grill

BANKVERBINDUNG:
Deutsche Bank
Kto-Nr. 7 258 601
BLZ 700 700 10

HRA-Nr. 88773
Ust.-IdNr.: DE 129402596
Amtsgericht München

Licht-Technik Vertriebs GmbH

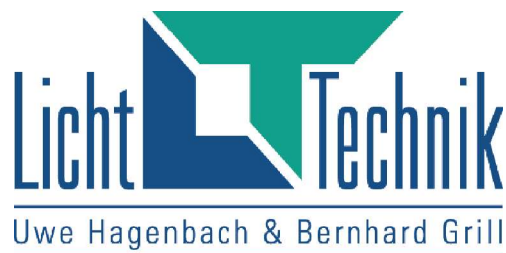
Osterwaldstraße 9-10

D-80805 München

Telefon: +49 (0) 89 / 36 05 28-0

Fax: Int. +49 (0) 89 / 36 05 28-30

E-mail: INFO@LICHT-TECHNIK.COM



Dimmer Shutter type DarkVader for mechanical dimming of daylight HMI lamps

(Suggestion for tendering text)

Dimmer shutter for lamps with lenses from 250 mm up to 630 mm diameter.

The dimmer shutter must be designed to control the light intensity of a headlight. The dimmer shutter must realize the following functions and specifications:

Power	24V DC max. 1,2A
Fuse	3,15 A slow blow
Max Temperature	0..40 °
Protection	IP20
Colour	Black

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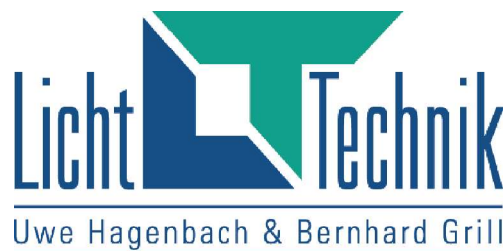
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Housings must be made of high density aluminium.

The surface of the dimmer shutter should be powder coated, heat resistant, scratch resistant, not light reflectable. Preferable color is black.

All mechanical and electrical parts must be durable heat resistant or protected by an isolation.

The power circuits of the lamp and the dimmer shutter must be separated. They must not influence each other.

The dimmer shutter must be CE-certified.

The motors and the gearboxes should be designed in low noise construction to move the lamp also during a production.

Fast dynamic movement as well as clean, smooth starts and stops without any jerking must be guaranteed.

An automatic calibration system after power up (initialisation) must be supported.

Speed control must be implemented.

The user interface must be lightened. In addition it there should be the possibility to switch the light off.

The programming possibilities must be indicated in plain text.

Real time drive from 0.2 seconds to 2 hours must be possible.

The user language must be available either in german or in english language.

Special sizes and rectangular light-hole should be available.

Manufacturer: Licht-Technik or equal

Type: Sh-xxx-yy

(xxx = size 250 to 630, yy = DE or SE, depends on lamp)

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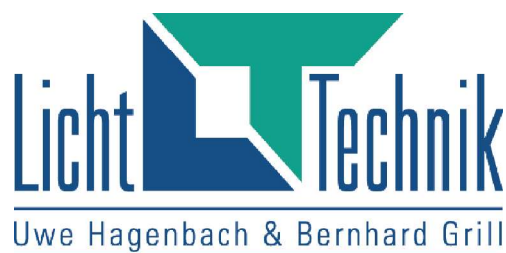
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Technical data

Weight and dimensions (mm):

Type	Length [cm]	Height [cm]	Depth [cm]	Weight [kg]
SH250	36.5	49.0	10.0	5.0
SH300	41.5	51.5	10.0	6.5
SH350	46.5	58.0	10.0	7.5
SH430	57.0	67.0	12.0	9.0
SH500	63.0	77.0	12.0	9.5
SH5630	75.0	87.5	12.0	13.5

Connected loads: 24V DC, max. 1,2 A, max. 29W

Pin assignment:

Data-Power-cable: 4pin XLR

Housing: shield

PIN 1: 0 V cross section min. 0,75mm²

PIN 2: Data – cross section min. 0,25mm²

PIN 3: Data + cross section min. 0,25mm²

PIN 4: +24 V DC cross section min. 0,75mm²

Datenleitung: 5pin XLR

PIN 1: shield cross section min. 0,25mm²

PIN 2: Data – cross section min. 0,25mm²

PIN 3: Data + cross section min. 0,25mm²

PIN 4: Not connected cross section min. 0,25mm²

PIN 5: Not connected cross section min. 0,25mm²

Please note: To avoid electrical and magnetical radio interferences, please use only screened cables. This improves also a safe operation of the devices.

The DMX wires must be twisted pair and shielded separately.

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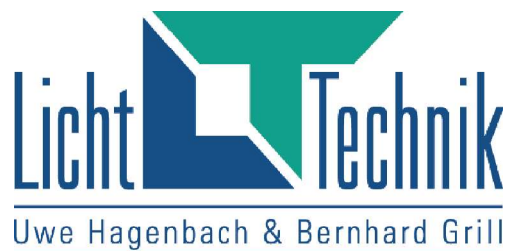
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Declaration of conformity

Manufacturer: Licht-Technik Vertriebs GmbH
Address: Osterwaldstraße 9-10
80805 München

declares that the product:

Name of product: DarkVader (Mechanical dimmer-shutter)
Type of product: SH250/SH300/SH350/SH430/SH500/SH630/SH80

corresponds to the following specifications under strict observance of the installation instructions and technical specifications:

**Standard 2004/108/EG of the European Parliament and the council from
15. December 2004
for law provision adaptation of the member states concerning the electrical
compatibility and for
abrogation of standard 89/336/EEC.**

The device passed the test. A testreport is available at company Licht-Technik Vertriebs GmbH.

Munich 19.9.2005



Uwe Hagenbach / Bernhard Grill
Managing directors