

GESCHÄFTSFÜHRER:
Uwe Hagenbach
Bernhard Grill

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

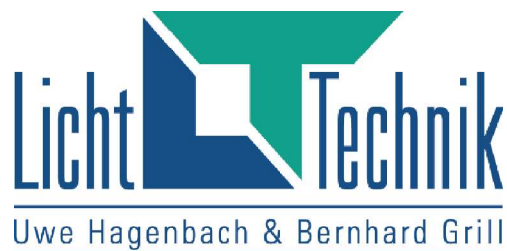
HRA-Nr. 88773
Ust.-IdNr.: DE 129402596
Amtsgericht München

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



Motoryoke type MB Rohr for remote control of luminaires (Suggestion for tendering text)



The motoryoke must be designed to support and control a motorized luminaires. The motorized yoke must realize the following functions and specifications:

Power	24V DC max. 4A
Fuse	6,3A slow blow
Control	DMX512 USITT 1990
Moving range PAN	1..370°
Moving range TILT	1..320°
Max. speed (PAN and TILT)	6° /sec.
Memory precision	<0,5°

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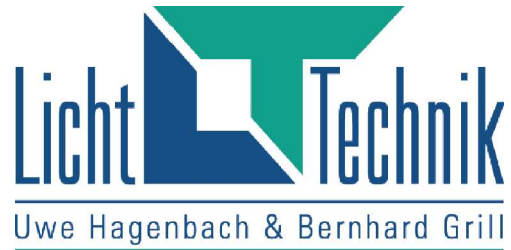
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Housings must be made of high density aluminium with gearboxes for luminaires up to 80kg unit weight.

The surface of the Motoryokes should be powder coated, heat resistant, scratch resistant, not light reflectable. Preferable colour is black.

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

The devices must be safety proved. For example by the german Berufsgenossenschaft (BGV C 1).

The Motoryokes must be CE-certified.

The drives must be designed in extra protective low voltage and supported with friction clutches to avoid danger at the motoryoke and lamp.

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.

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

The PAN and TILT axis should have a 16-Bit resolution control to ensure an exact control.

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

The programming possibilities must be indicated in plain text.

Speed control must be implemented.

An optional Focus-unit and/or a motorized barndoor and/or a power switching must be controllable.

manufacture: Licht-Technik or equal
type: MB Rohr

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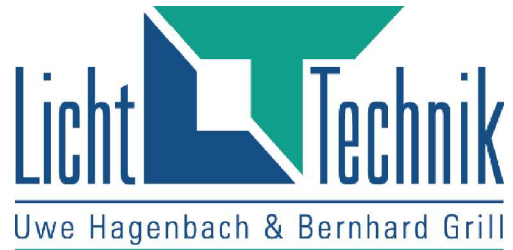
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Technical data

Connected loads: 24 V DC, max. 5 A

Fuse: 6.3 A slow blow

Pin assignment:

Data-Power-cable: 4pin XLR connector screened

Housing: Screen

PIN 1: 0 V (GND) min. cross section 0,75mm²

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

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

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

The DMX wires must be twisted pair and shielded separately.

Focusable: 5pin XLR connector min. cross section: 0,25 mm² screened.

PIN 1: Motor -

PIN 2: Motor +

PIN 3: Potentiometer 1

PIN 4: Potentiometer 2

PIN 5: Potentiometer 3

Screen connected to housing of XLR-connector

DMX power switching: 3pin XLR connector min. cross section 0,25 mm² screened

PIN 1: GND

PIN 2: Firmament 1

PIN 3: Firmament 2

Screen connected to housing of XLR-connector

Barndoor cable:

Pin number	Signal	Pin number	Signal
Pin 1	Motor barndoor rot -	Pin 13	Not connected
Pin 2	Motor barndoor 4 -	Pin 14	Motor barndoor rot +
Pin 3	Motor barndoor 3 -	Pin 15	Motor barndoor 4 +
Pin 4	Motor barndoor 2 -	Pin 16	Motor barndoor 3 +
Pin 5	Motor barndoor 1 -	Pin 17	Motor barndoor 2 +
Pin 6	GND (ground)	Pin 18	Motor barndoor 1 +
Pin 7	Potentiometer barndoor 2	Pin 19	Potentiometer barndoor 1
Pin 8	Not connected	Pin 20	Potentiometer GND
Pin 9	Potentiometer barndoor 3	Pin 21	Potentiometer barndoor 4
Pin 10	Potentiometer Vcc (+5V)	Pin 22	Potentiometer barndoor rot
Pin 11	Not connected	Pin 23	GND
Pin 12	Not connected	Pin 24	Not connected
		Pin 25	Not connected

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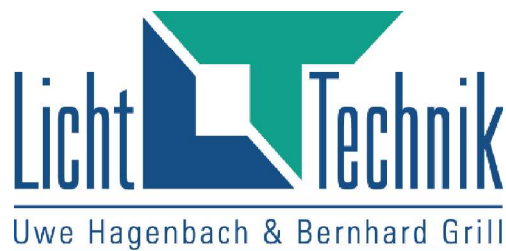
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Weight and dimension:

Height: 70 cm

Length: 57 cm

Depth: 22 cm

Weight: 7,6 kg (without lamp and holders)

Declaration of conformity

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

declares that the product:

Name of product: Motoryoke studio 2000
Type of product: MB-STA, MB-STB, MB-STC

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/EWG.**

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