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

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Motorized barndoor (Suggestion for tendering text)



Motorized barndoor Type Stargate02

The motorized barndoor is an accessory for headlights to control the light. With this device it is possible to shadow the light beam and make effekts like slots. Five axles are motordriven. Barndoor one to four and rotation as well.

Power supply: 24V DC

Control: DMX512-1990 by USITT

5 channels, 8 Bit per channel

Barndoor 1-4 moving range: 0° to 125°

Rotation moving range: up to 180°, but programmable from 1° to 180°

Speed barndoor 1-4: 10°/s Speed rotation: 10°/s

Memory precision: smaller 0,5°

Internal control: 16-Bit processor with 5 PID controller

Power off safety: self locking friction clutches

absolute value devices for position detection

no initialisation run after power up

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The power circuits of the lamp and the device must be seperated. They must not influence each other.

The device must be CE-certified.

The drive of the rotation must be realized via a inner located Teflon(TM) cable to ensure a safe and trouble-free operation.

All drives must have position sensors to recognize the actual position and feedback this to the control electronic.

The firmware of the device must be able to detect any blockings or defects in any single axle. In addition it must have an overcurrent protection, designed in the hardware of the electronics.

It must have friction clutches to avoid any damages to the drives, electronic and leafs by crashes or manual movement.

The drives must be driven in low-voltage implementation to avoid any danger to humans.

There must be no initialisation run after power up.

The motors and the gearboxes should be designed in low noise construction for operating possibility also during a production.

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

Housings must be made of high density aluminium, gearboxes of heat resistant synthetic.

The surface must be powder coated, heat resistant, scratch resistant, not light reflectable. Preferable color is black.

Complete control of all functions must be realized via DMX512-1990, USITT standard.

Each barndoor and rotation must be separately controllable.

An automove function must implemented for opening, closing or positioning the barndoors successive one after another.

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.

The user language must be available in german as well as in english language.

Licht-Technik or equal manufacturer:

type: MT xxx 02 (xxx = size)

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Technical data

Weights and dimensions:

Since dimensions are variable (open/closed barndoors) only weights are indicated.

Туре	Weight [kg]
Stargate MT-200-02	5.7
Stargate MT-250-02	6.5
Stargate MT-300-02	7.0
Stargate MT-350-02	7.5
Stargate MT-430-02	9.0
Stargate MT-500-02	10.5

Connected load: 24 V DC, max. 1,75 A

Fuse: 3,15 A slow blow

Pin assignment:

<u>Data-Power-cable:</u> 4pin XLR

Housing: shield

PIN 1: 0 V min. cross section 0,75mm²
PIN 2: Data – min. cross section 0,25mm²
PIN 3: Data + min. cross section 0,25mm²
PIN 4: +24 V DC min. cross section 0,75mm²

DMX-data cable: 5pin XLR

PIN 1: 0V min. cross section 0,25mm²
PIN 2: Data – min. cross section 0,25mm²
PIN 3: Data + min. cross section 0,25mm²
PIN 4: not connected min. cross section 0,25mm²
PIN 5: not connected min. cross section 0,25mm²
min. cross section 0,25mm²

<u>Caution</u>: To comply EMV rules our equipment has to be connected with shielded cables. This also for reliability of our equipment.

The DMX wires must be twisted pair and shielded seperately.

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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: Motorised barndoor

Type of product: Stargate MT-200-02, Stargate MT-250-02, Stargate MT-300-02

Stargate MT-350-02, Stargate MT-400-02, Stargate MT-430-02,

Stargate MT-500-02,

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 electronical compatibility and for abrogation of standard 89/336/EWG.

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

Munich, 6. July 2010

Uwe Hagenbach / Bernhard Grill Managing directors