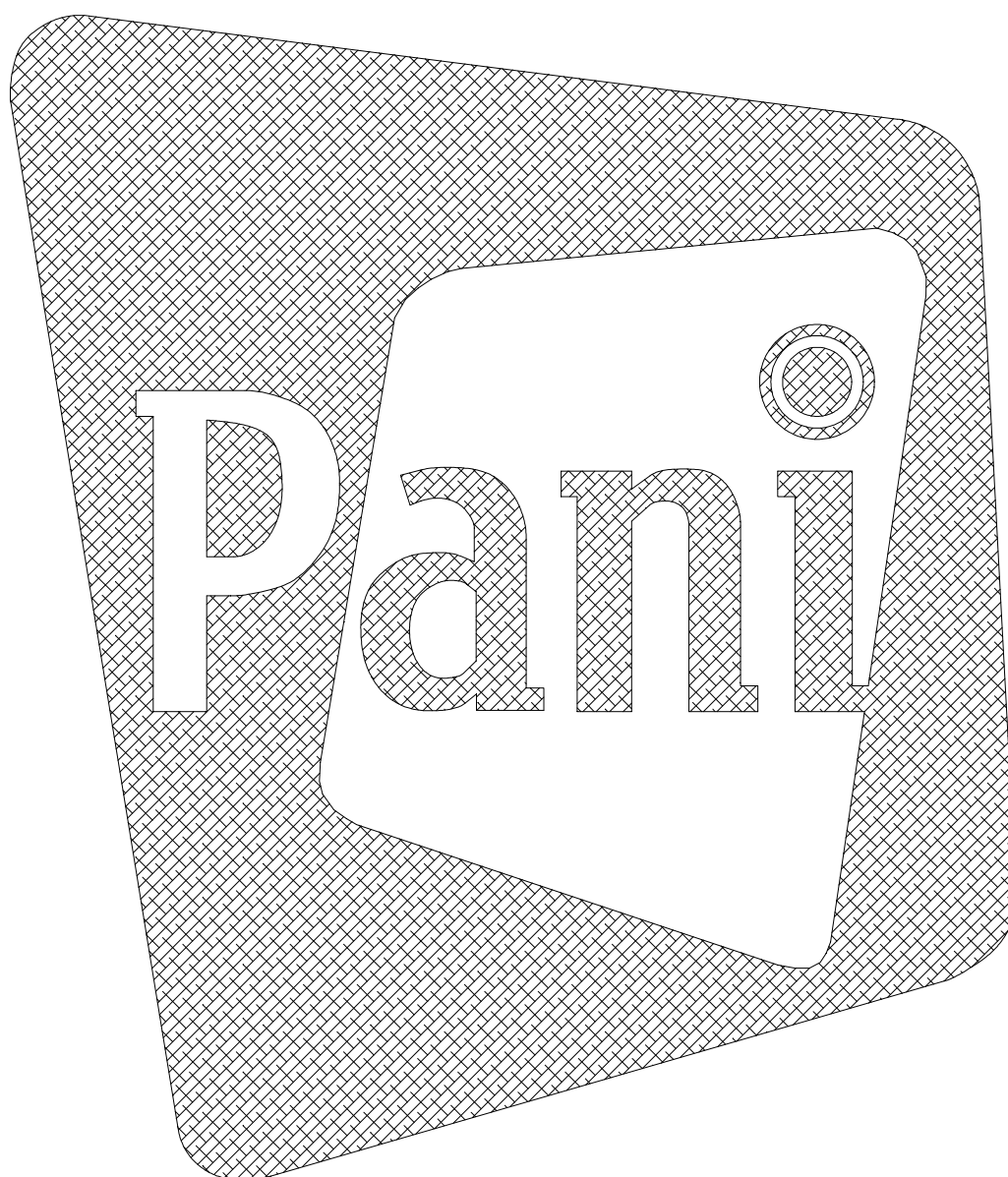


**Operation Manual**

**FFX**

**UNIVERSAL FILM**

**EFFECT DRIVE**



**Order Code: 13201**

Version of September 2005

## CONTENTS

	Page
1) <b>Dimension Drawing</b> .....	2
2) <b>Position Drawing</b> .....	3
(Legend for 2) .....	3
3) <b>General</b> .....	4
4) <b>Drive and Control</b> .....	4
5) <b>Remote Control</b> .....	4
5.1) Operating in Remote Control.....	4
6) <b>Mounting Instruction</b> .....	5
7) <b>Changing the Film</b> .....	5
8) <b>Electrical Schematic</b> .....	7
9) <b>Technical Data</b> .....	8
10) <b>Unit as Delivered</b> .....	8
11) <b>Accessories</b> .....	8
12) <b>Spare Parts</b> .....	9

## ***PANI Projection and Lighting Vertriebs GmbH***

**A – 1070 Vienna, Kandlgasse 23**

**Austria, Europe**

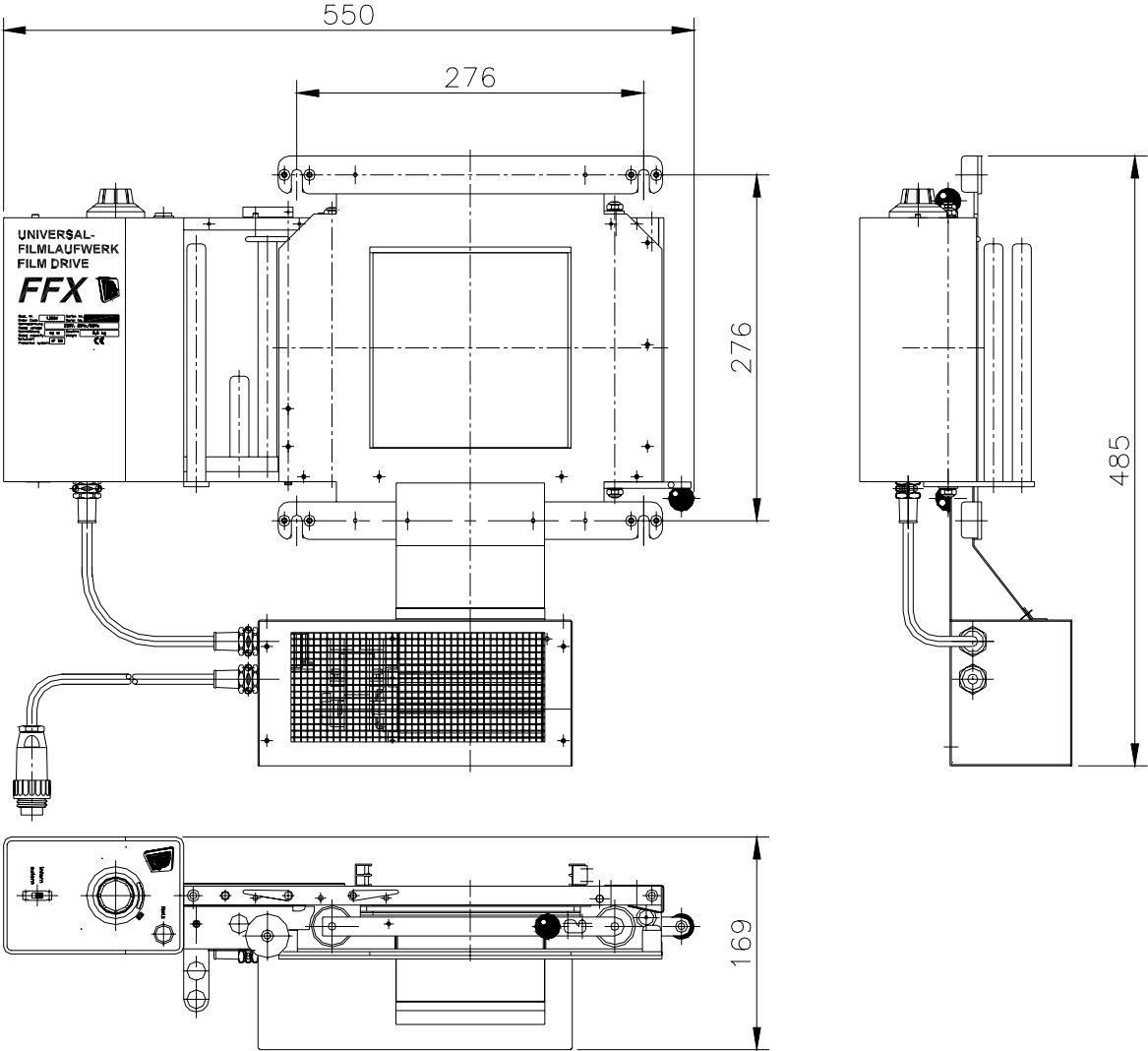
Tel.: + 43 1 / 521 08 – 0

Fax.: + 43 1 / 526 42 87

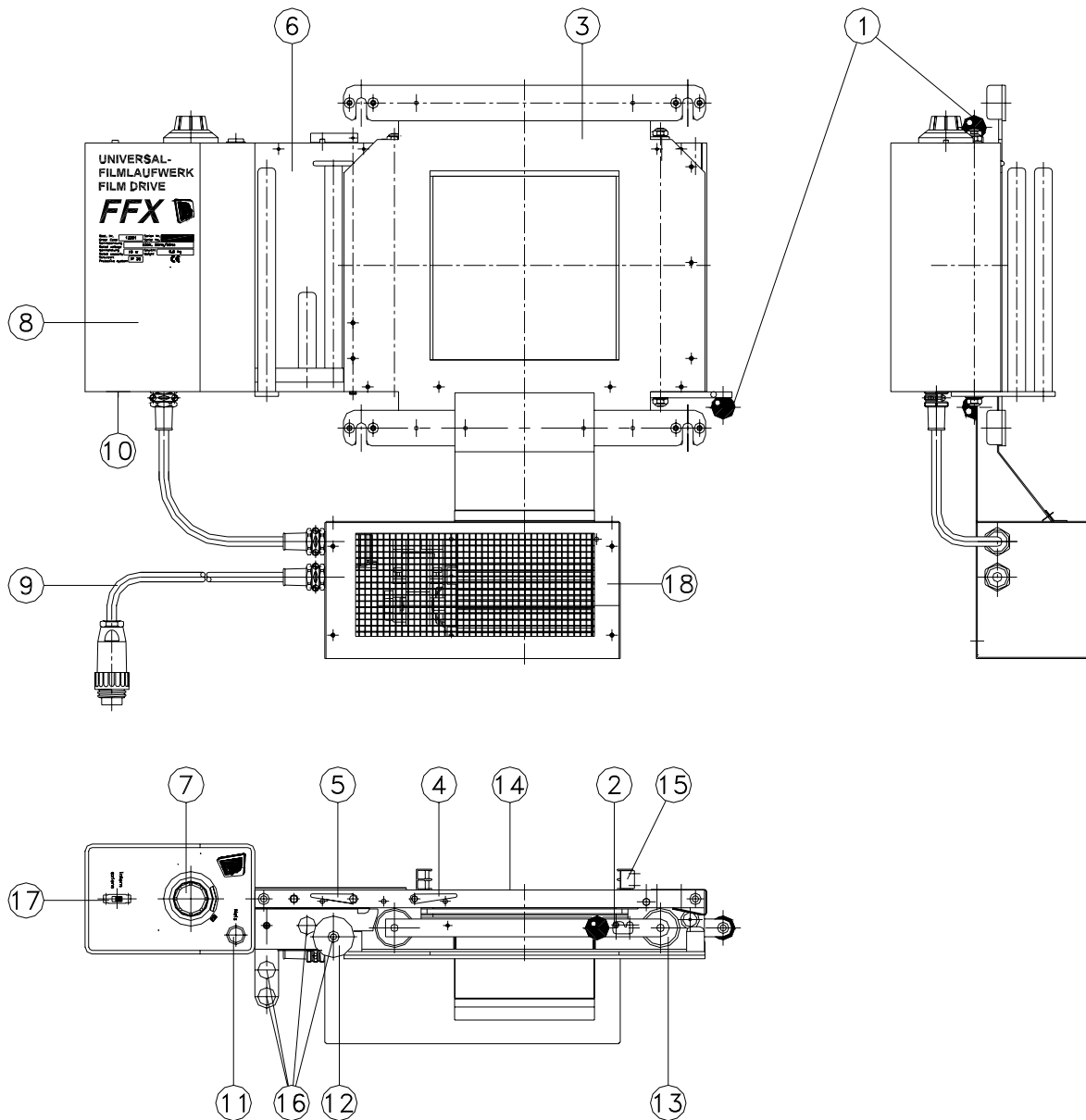
E – mail: [light@pani.com](mailto:light@pani.com)

Internet: [www.pani.com](http://www.pani.com)

# 1) Dimension Drawing



## 2) Position Drawing



### Legend

- |   |   |
|---|---|
| (1) Film Tension Knob                     | (10) Remote Control Jack                      |
| (2) Locking Pin                           | (11) Power Indicator Lamp                     |
| (3) Hanger Plate                          | (12) Drive Rollers                            |
| (4) Lever Lock for Flap Frame             | (13) Guide Rollers (Spring Loaded)            |
| (5) Lever Lock for Pressure Rollers       | (14) Flap Frame                               |
| (6) Main Frame                            | (15) Holder for Frames 18 x 18 cm             |
| (7) Potentiometer for Left / Right Travel | (16) Guide Pins for Long Film                 |
| (8) Motor Housing for Electronics         | (17) Switch for Internal - External - Control |
| (9) Power Cable                           | (18) Film- Ventilation                        |

### **3) General**

The Universal Film Drive (the linear film strip drive for long and short film loops) is for use with all PANI projectors with a slide format of 18 x 18 cm (except BP 6 Gold. When used with the BP 4 II/ HMI an additional Heat Absorption Filter 13416 is required. The travel speed of the film is from still (no motion) to 46 mm per second, and is adjustable and reversible.

In response to the often expressed desire for particularly space saving effects attachments, for use on small proscenium bridges, lighting rails as well as positions within stage set pieces, PANI provides an effects attachment for the transport of film loops. The projected media can thus be realistic or abstract. As with the single and double effects disc attachments, large number of standard effects are at one's disposal.

### **4) Drive and Control**

The drive mechanism for the film strip is provided by a 12 volt DC motor with a built in tach generator. The power section and electronic RPM generator is housed within the printed circuit card. The electronics are protected by a 200 mA fuse.

### **5) Remote Control**

At the upper side of the motordrive housing (8) is a 4-pole XLR connector (10). If the switch (17) is in the position "extern" - the Universal Film Drive can be controlled via 0...+10VDC. Direction and speed are controllable.

#### **5.1) Operating by Remote Control**

For controlling the Universal Film Drive via USITT DMX 512, the Universal DMX-Interface - Order code 15205 - and the 2-Channel- Control cable (Order code 19318) to connector (10) is required.

For more information see users guide- Universal DMX- Interface.

POSITION DRAWING SEE PAGE 3

### **6) Mounting**

- a) Remove objective lens by loosening the wing nuts on the front of the projector.
- b) Remove slide carrier.
- c) Hang the Universal Film Drive on the four objective lens support bolts, such that the long film guide pins (16) are facing the objective side.
- d) Rehang the objective lens and fix in place by tightening the wing nuts.
- e) For long films use absorber

FOR POSITION NUMBERS SEE PAGE 4

## 7) Changing the Film

### **A) INSERTING SHORT FILM**

a) FILM TENSION KNOB (1)

b) LEVER LOCK FOR  
FLAP FRAME (4)

c) LEVER LOCK  
FOR PRESSURE ROLLER (5)

d) FILM

e) FLAP FRAME (14)

f) FILM TENSION KNOB (5)

g) LEVER LOCK  
FOR PRESSURE ROLLER (5)

h) POTENTIOMETER (7)

**Attention:** Painted or film emulsion side must face outward.

Slide the knob the direction of the arrow **(I)** until it rests on the guide pins.

Rotate lever about 45 degrees until the frame opens.

Swing the lever 180 degrees in the direction of the arrow. The pressure roller are lifted off of the drive roller.

Insert the film between the guide pins and the drive roller.

Close.

Press the lever in the direction of the arrow **(II)**. The film will be automatically tensioned.

**Attention:** Used only for long film.

Swing the lever 180 degrees back. Pressure roller will be once again pressed against the drive roller.

Turning the potentiometer regulates the direction and speed of the film left and right.

FOR POSITION NUMBERS SEE PAGE 4

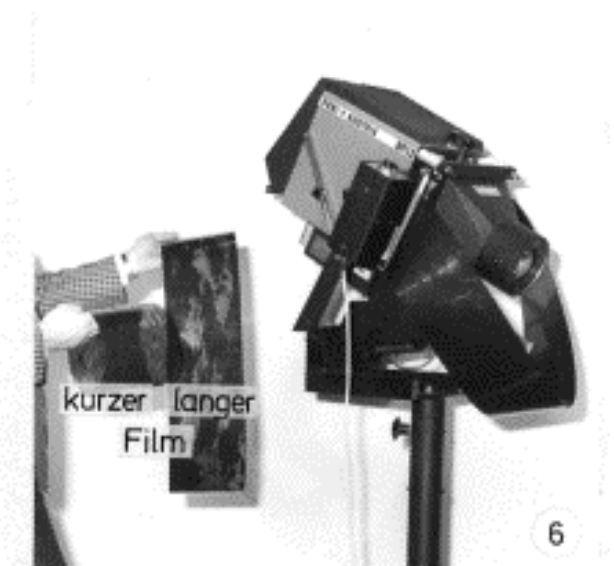
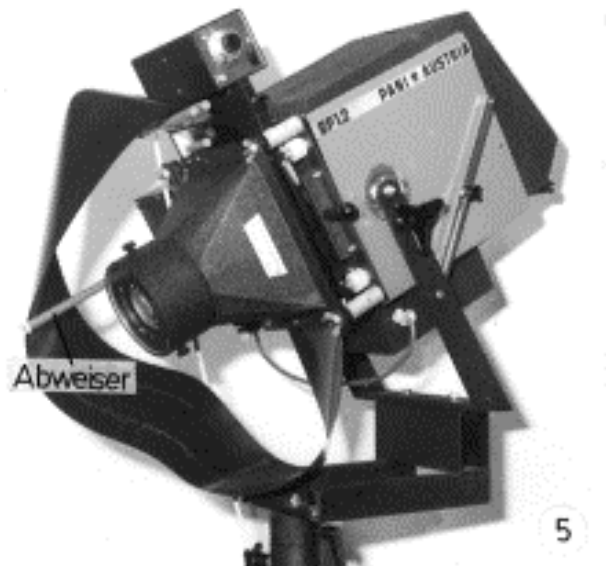
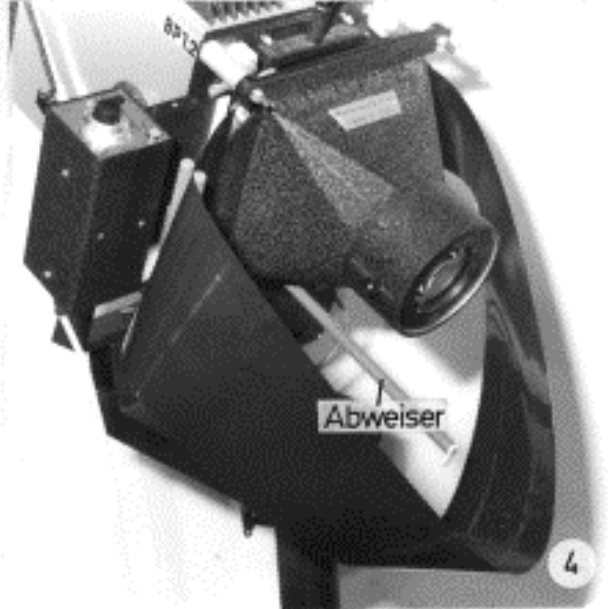
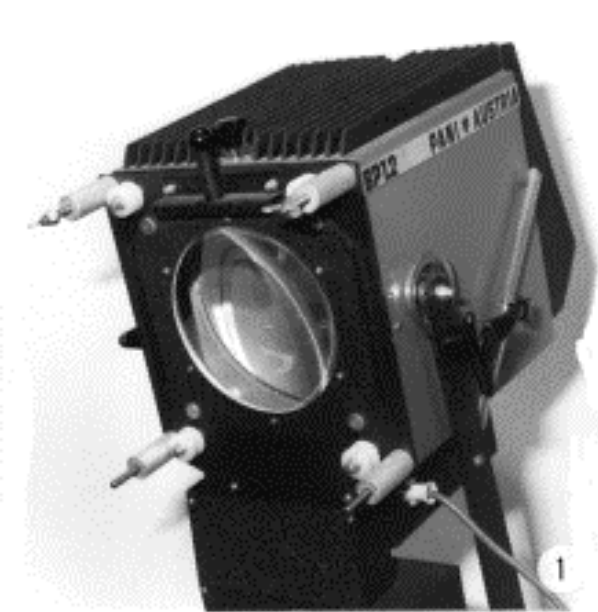
### **B) INSERTING LONG FILM**

Same as above with the omission of steps a) and f). The film must travel between the guide pins (16).

FOR POSITION NUMBERS SEE PAGE 4

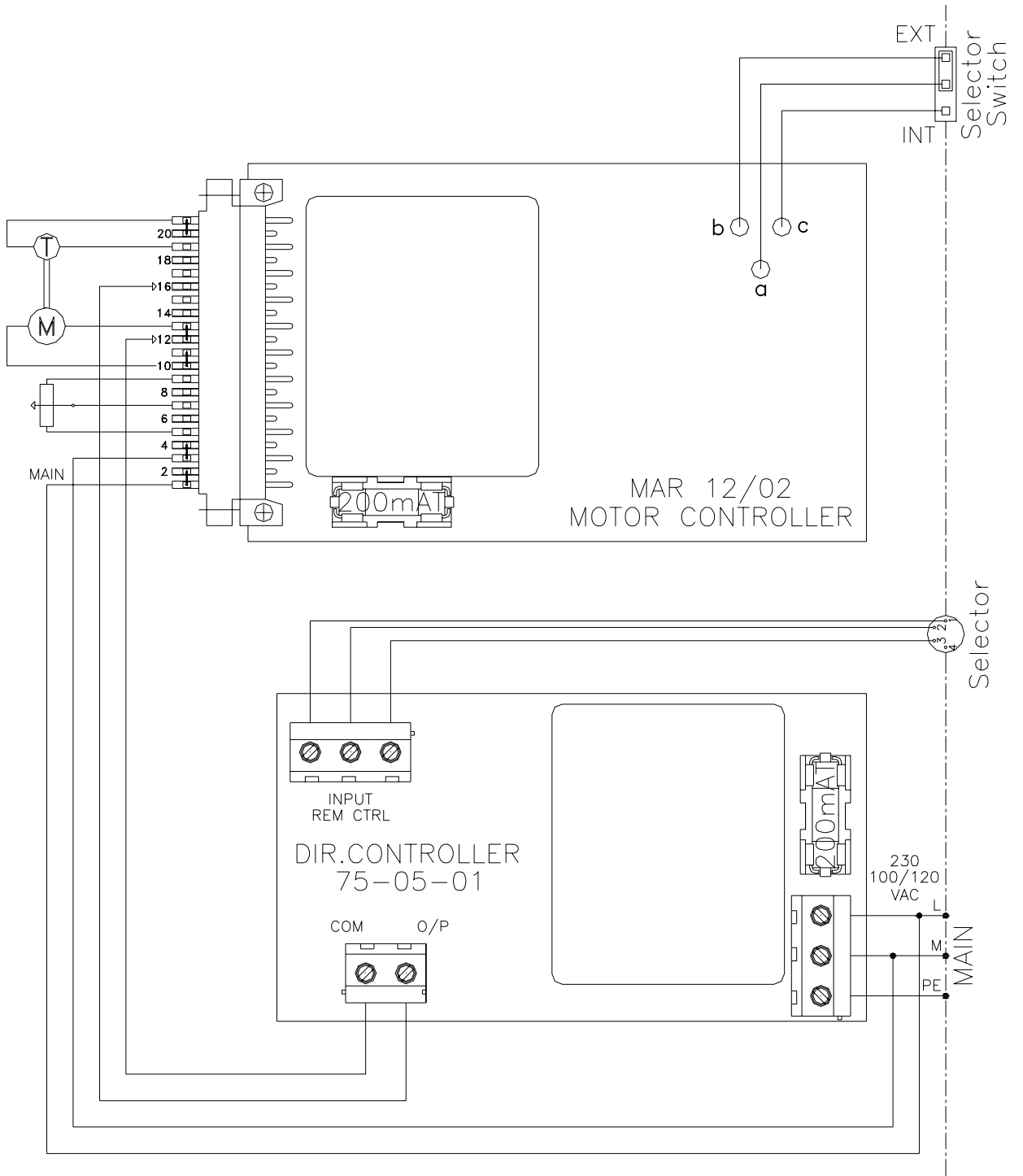
### **C) REMOVING - SHORT FILM / LONG FILM**

Follow the previous steps in reverse order.



# 8) Electrical Schematic

Part No.: 72-05-03





## 9) Technical Data

Source Voltage	220 V 50/ 60 Hz. (also 100/120VAC aviable)
Power Rating	10 VA
Power Connector	4 p- AMPH.r
Net Weight	9, 6 kg
Dimensions	550x 485x 166 mm
Film Travel	0 - 46 mm/ s
Usable Format	155 x 155 mm

## 10) Unit as Delivered

1 Universal Film Drive for short and long film loops, with adjustable drive 220 VAC	13201
--	-------

## 11) Accessories

### Short Film Loops 170x 536 mm Complete Set 23401

Short Film Loops 170x 536 mm	Fire	13401
	Water	13402
	Waves	13403
	Smoke	13404
	Fog	13405
	Rain	13406
	Blank	13407

### Long Film Loops 170x 1650 mm Complete Set 23402

Long Film Loops 170x 1650 mm	Fleecy Clouds	13408
	Storm Clouds	13409
	Thunder Clouds	13410
	Smoke	13411
	Fog	13412
	Snow, includes mask	13413
	Blank	13414

Film for universal film drive- transparent, unpainted 33401

Universal DMX Interface 15205

2 Channel- Control- Cable 19318

Heat absorbtionfilter (must be used on BP 4 Compact) 13416

## 12) Spare Parts

Description	Order Code:	Qty. / Unit
Filter Insert	72- 01- 39/a	1 li + 1 re
Spacer for Filter Insert	72- 01- 40/a	2
Safety Spring	72- 01- 42/a	1
Hanger Yoke	72- 01- 55	2
Hanger Yoke Stiffener 10 ≠	72- 01- 56	4
Tensioner	72- 01- 59	1
Spacers for Tensioner	72- 01- 60	2
Spring for Lower Tensioner	72- 01- 61	1
Spring for Upper Tensioner	72- 01- 61/a	1
Tensioner 2	72- 01- 83	1
Film Outrigger Clamp	72- 01- 66	1
Film Outrigger	72- 01- 67	2
Film Outrigger on Yoke	72- 01- 68	1
Film Outrigger	72- 01- 69	1
Motor Drive Tach Generator Comb.	Typ 2251	1
Circuit Board with Edge Connector	Typ MAR 12/ 02 AWS	1
Beckmann Potentiometer	Type 7286 R5K	1
Drive	Type RB	1
Power Indicator Lamp	LRE 16 gelb	1
XLR- 4pole Connector	NC 4 MP 47 33 10	1
SH Cable Bushing	SH 11	3
Sleeve Guard for Cable	SNR 09	3
Strain Relief	SM 11	3
Ball Knob	DIN 319- KU- 20- M5- C	2
Tangent Blower	QLD 6/1200 A105 3020L	1
Direction print	72- 05- 1	