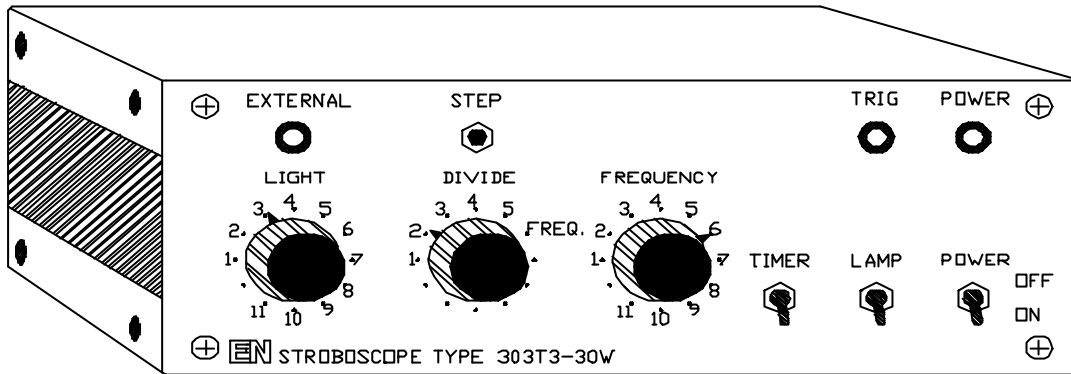


# Grafisk Maskinfabrik A/S

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## STROBOSCOPE SYSTEMS



### Stroboscope 303T3-8W and 303T3-30W

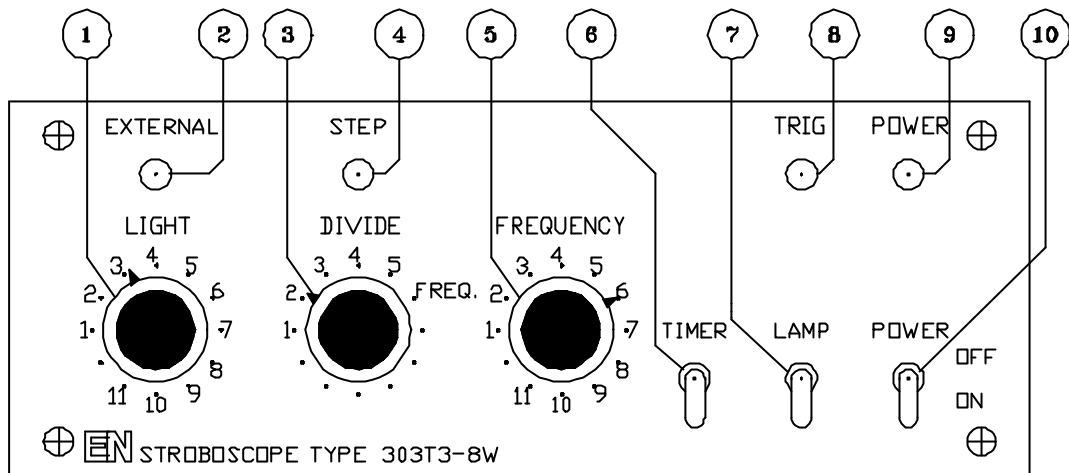
The strobe lights are specially designed to the label industry for inspection of printed labels or for inspection in connection with rewinding, length slitting etc. The line of stroboscopes includes models with 8W or 30W bulbs (the 8W-system is mostly used for web widths up to 200mm and the 30W-system – which emits considerably more light – for wider lanes. With the varied range of photo cells and lamps the stroboscopes are easily installed and can be made without support of a technician, as all connections are with plugs.

The stroboscopes have an adjustable integrated pulse generator and an input for external triggering by a photo cell. The light intensity is adjustable according to different thicknesses of paper. The signal from the photocell can be divided by 1 to 5 so that the strobe lamp lights on every 2nd, 3rd, 4th, 5th pulse allowing for a synchronisation when subsequent labels are not identical. The unit has a built-in timer allowing for an automatic turn off of the lamp after two minutes. This means a considerable extension of the life of the lamp. If several lamps are required on the same machine, further "slave modules" can be connected to the main strobe light, and in addition, there is an output, so that the photocell for synchronisation can be connected to a counter or other equipment requiring a photo cell signal.

### Specifications

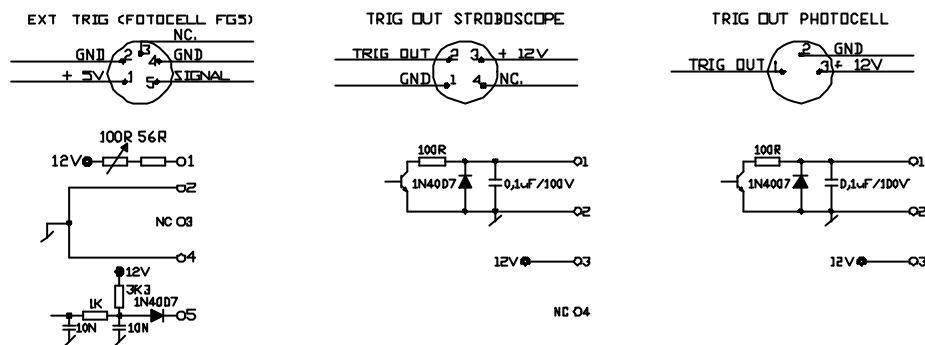
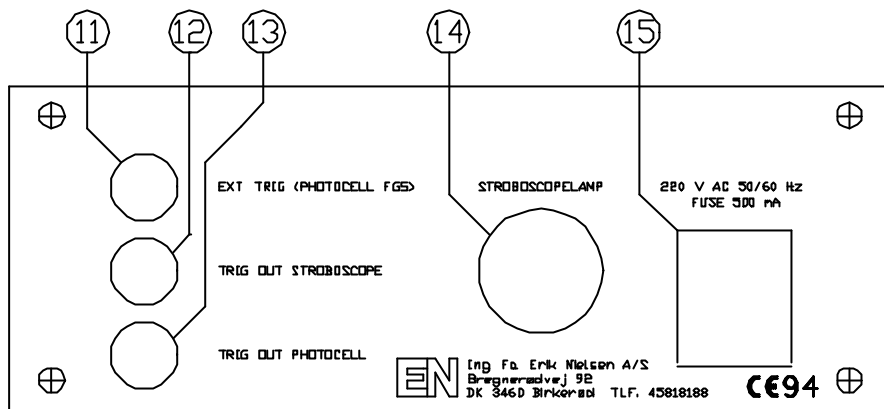
|                         |                       |
|-------------------------|-----------------------|
| Lamp power:             | 30 watt or 8 watt     |
| Max. lamp frequency:    | 120 Hz                |
| Power:                  | 220/110 V AC 50/60 Hz |
| Dimensions (H x W x D): | 90 x 215 x 255 mm     |
| Weight:                 | 2.5 kg                |
| Power consumption:      | Max. 70 watt          |

## Control buttons and control lamps



- LIGHT (1):** Adjustment of the light of the photo sensor (sensitivity).
- DIVIDE (3):** Selection of internal trigger frequency or division (prescaling) of external trigger signal by 1 - 5.
- STEP (4):** When pressing STEP (4) and with the DIVIDE (3) button in position 2-5 the trigger point is relocated (the next label is illuminated).
- FREQUENCY (5):** Adjustment of internal clock frequency, when the DIVIDE (3) button is in position FREQ..
- TIMER (6):** Timer on/off.  
 Press down (on): The lamp is activated (can also be activated by pressing the button on the lamp) and is switched off after 2 minutes.  
 Press up (off): The lamp flashes constantly.
- LAMP (7):** Lamp on/off.
- EXTERNAL (2):** Indicates signal from EXT. TRIG input.
- TRIG (8):** Indicates signal to the strobe.
- POWER (10):** Power on/off.
- POWER (9):** Indicates that the strobe is switched on.

## Connections



- EXT. TRIG (11):** Connection of the photo sensor (FG5).
- TRIG OUT STROBOSCOPE (12):** Open collector output, max. 24 V DC 25mA.  
Output for 205-8/30 W strobe light “slave”.
- TRIG OUT PHOTOCELL (13):** Open collector output, max. 24 V DC 25mA.  
Output for counter etc. The signal always follows the photo sensor.
- STROBOSCOPE-LAMP (14):** Connection of strobe lamp.
- POWER PLUG (15):** 220/110 Volt, 50/60 Hz, fuse 500 mA/1A.

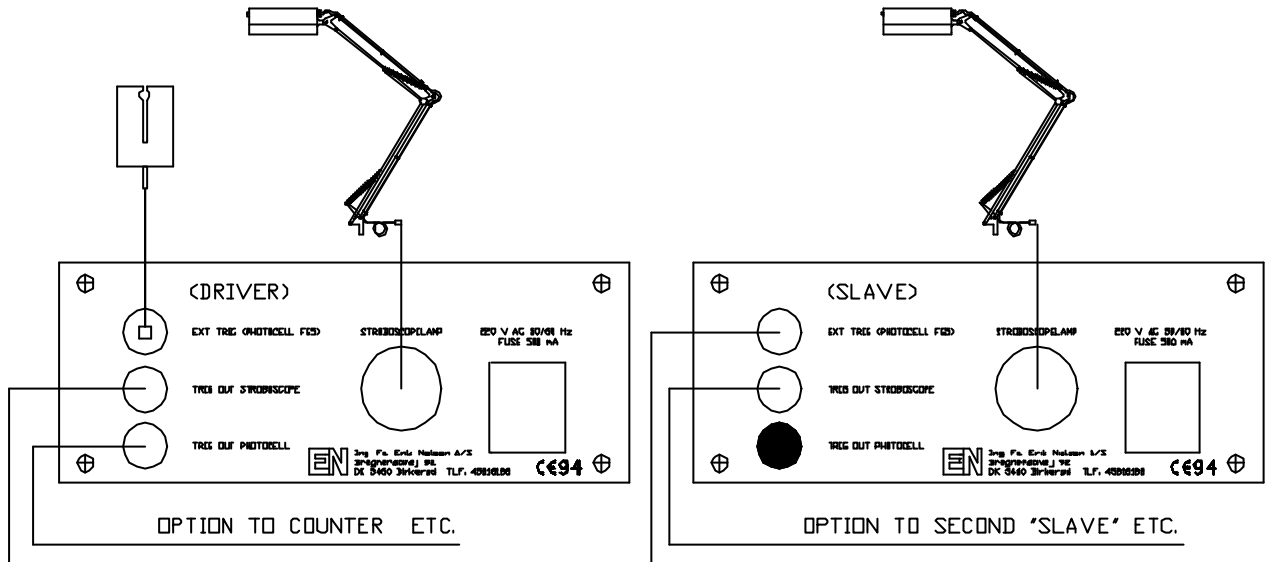
## Adjustment of the sensitivity of the photo cell

The LIGHT (1) potentiometer is adjusted according to the label so that the lamp is triggered (turn up till the lamp stops flashing and then down till the lamp is triggered – not further!)

## Possible configurations

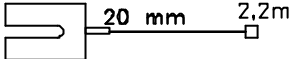
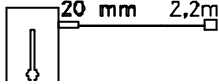
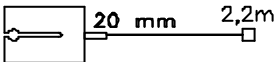
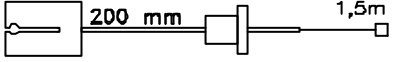
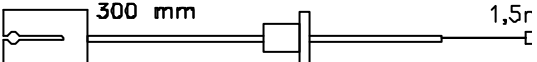
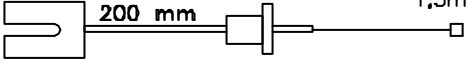
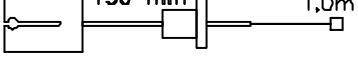
If several stroboscope lamps are required on the same machine, an unlimited number of "slave" units may be connected (type 205T3-8W or 205T3-30W). (See illustration 1).

### Illustration 1:



## Accessories

### Fork photo sensor FG5: 7 models

|          |  |   |
|----------|--|---|
| FG5KB:   | Fork photo sensor with wide slit and short tube connection           |  |
| FG5KN:   | Fork photo sensor with narrow slit and angled, short tube connection |  |
| FG5KS:   | Fork photo sensor with narrow slit and short tube connection         |  |
| FG5MS:   | Fork photo sensor with narrow slit and medium length tube connection |  |
| FG5LS:   | Fork photo sensor with narrow slit and long tube connection          |  |
| FG5MB:   | Fork photo sensor with wide slit and medium length tube connection   |  |
| FG5LR25: | Fork photo sensor with narrow slit and medium length tube connection |  |

**Lamps: 4 models**

STLA8NA: 8 watt stroboscope lamp on arm  
 STLA30NA: 30 watt stroboscope lamp on arm

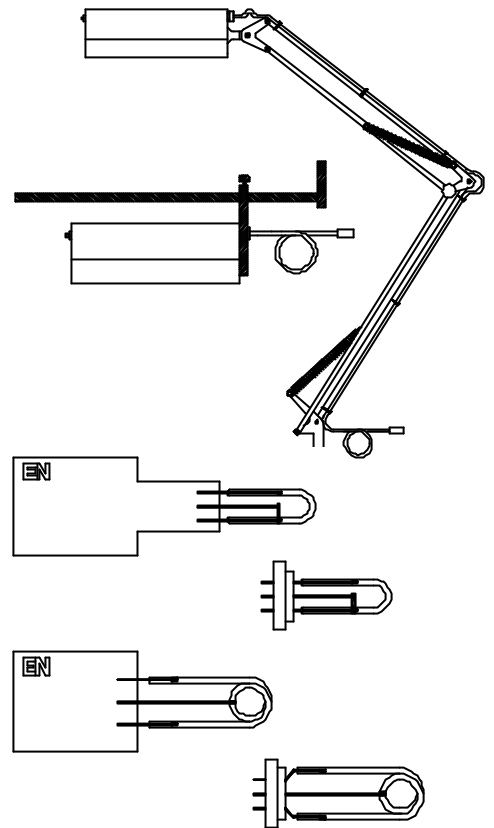
STLA8N: 8 watt stroboscope lamp with mountings  
 STLA30N: 30 watt stroboscope lamp with mountings

**Bulbs: 4 models**

STP8N: 8 watt stroboscope bulb on PCB  
 (STP8G:) 8 watt stroboscope bulb on ceramic

STP30N: 30 watt stroboscope bulb on PCB  
 (STP30G:) 30 watt stroboscope bulb on ceramic

( ) = old types

**”SLAVE UNITS”**

205T3-8W: 8 watt lamp power  
 205T3-30W: 30 watt lamp power

