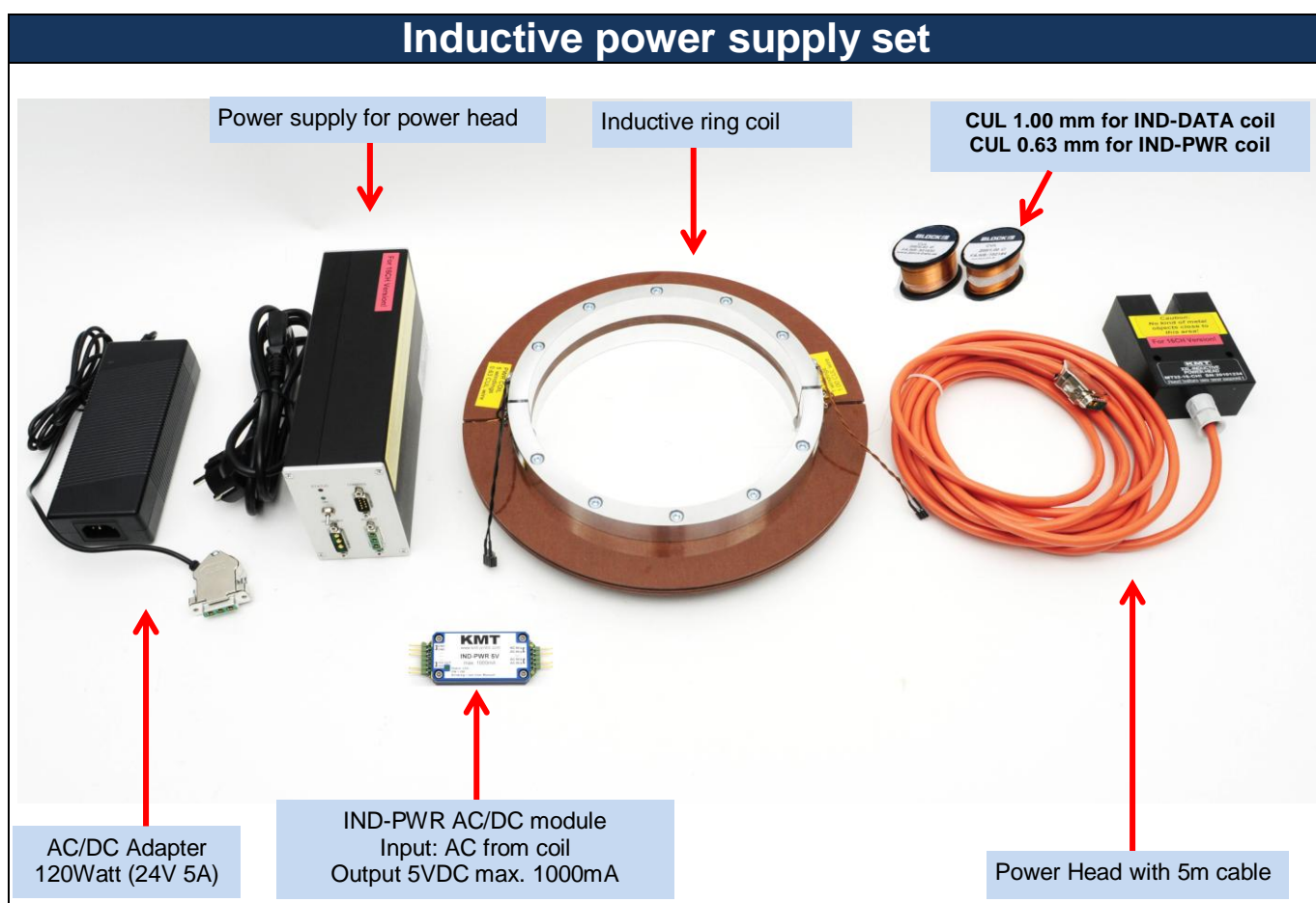


IND-PWR XXL

RING COIL

Interfleet

User Manual

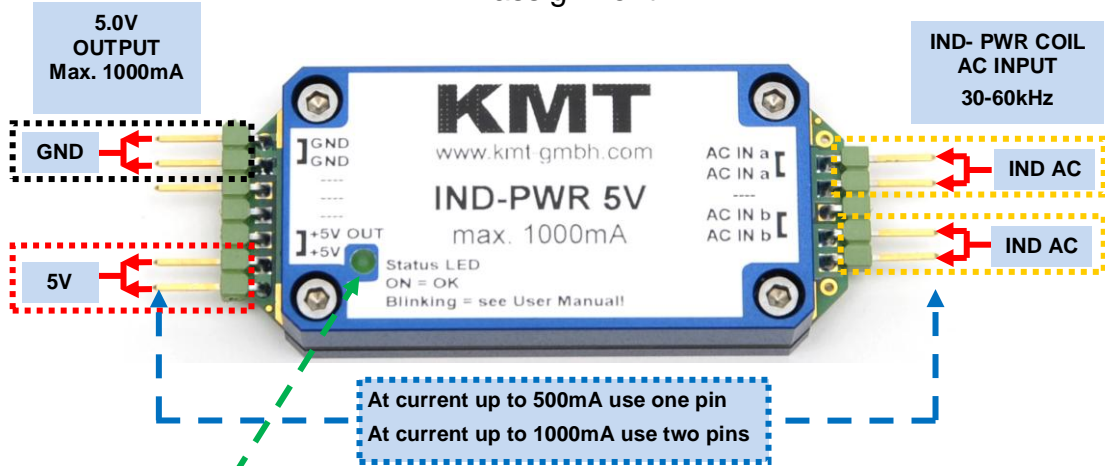


MT32-IND-PWR 5V - AC/DC Module for inductive power



MT32-IND-PWR 5V
 AC/DC Module for inductive power
 Input: 30-60kHz, 10-50V AC
 Output: 5 VDC
 Current: up to 1000mA
 Weight: 35 gram
 Vibration: 5g
 Shock: 3000g

Pin assignment



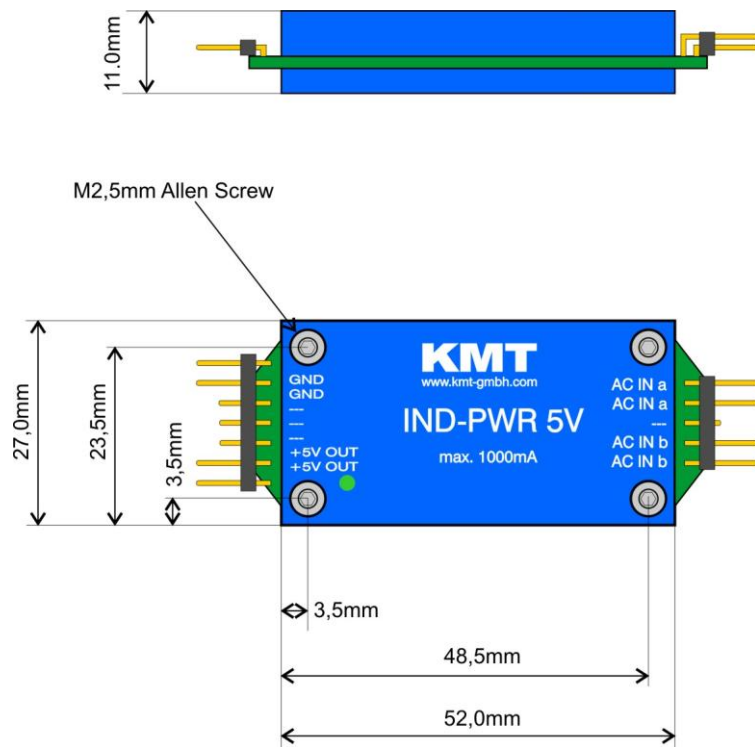
Status LED

LED ON = right windings and good distance between head and coil

LED very low blinking = too less windings of IND-Coil or too large distance between head and coil!

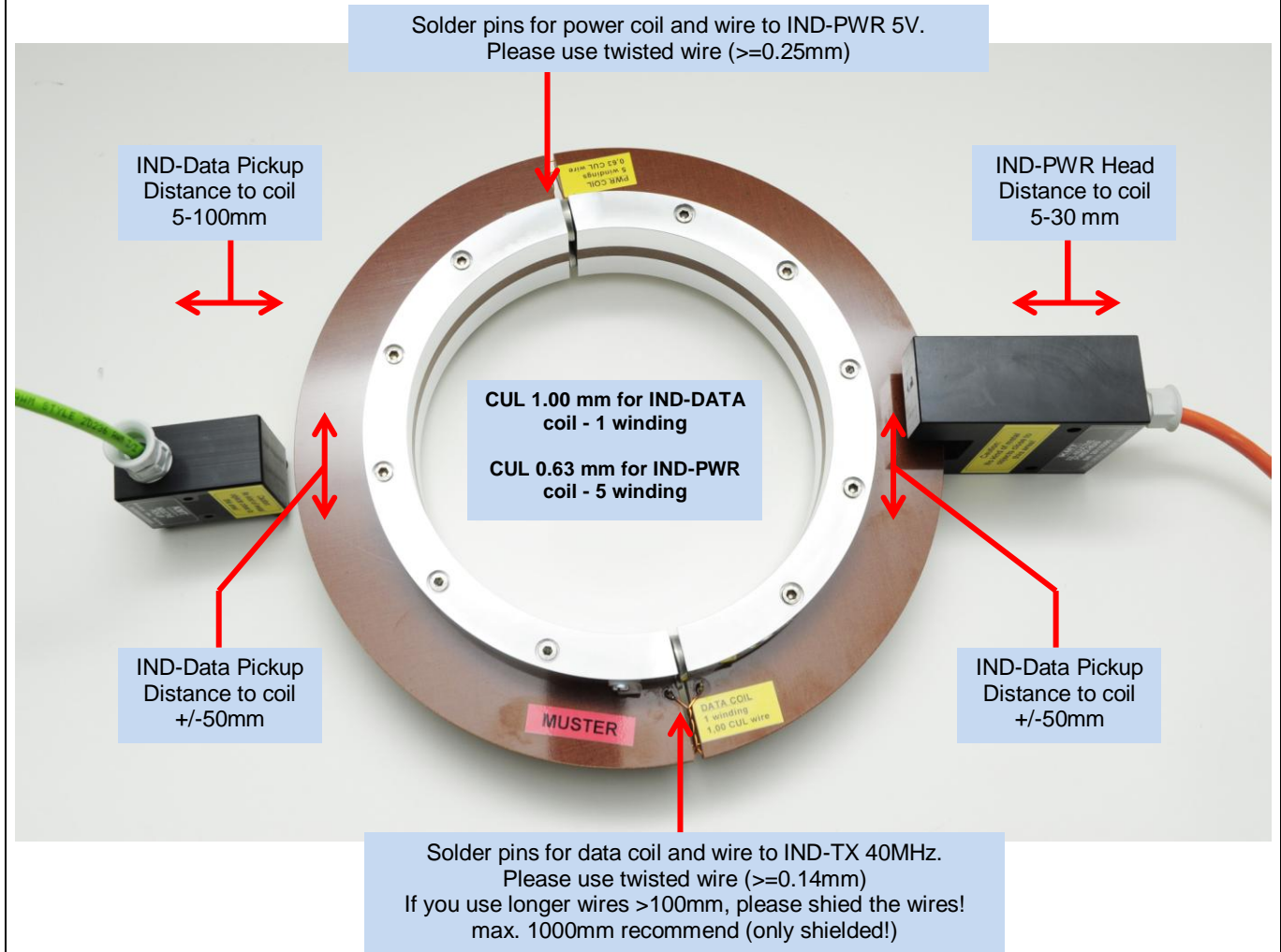
LED fast blinking = too much windings (OVER POWER at IND-Coil) reduce windings or module go hot and switch OFF

MT32 IND-PWR housing - dimensions

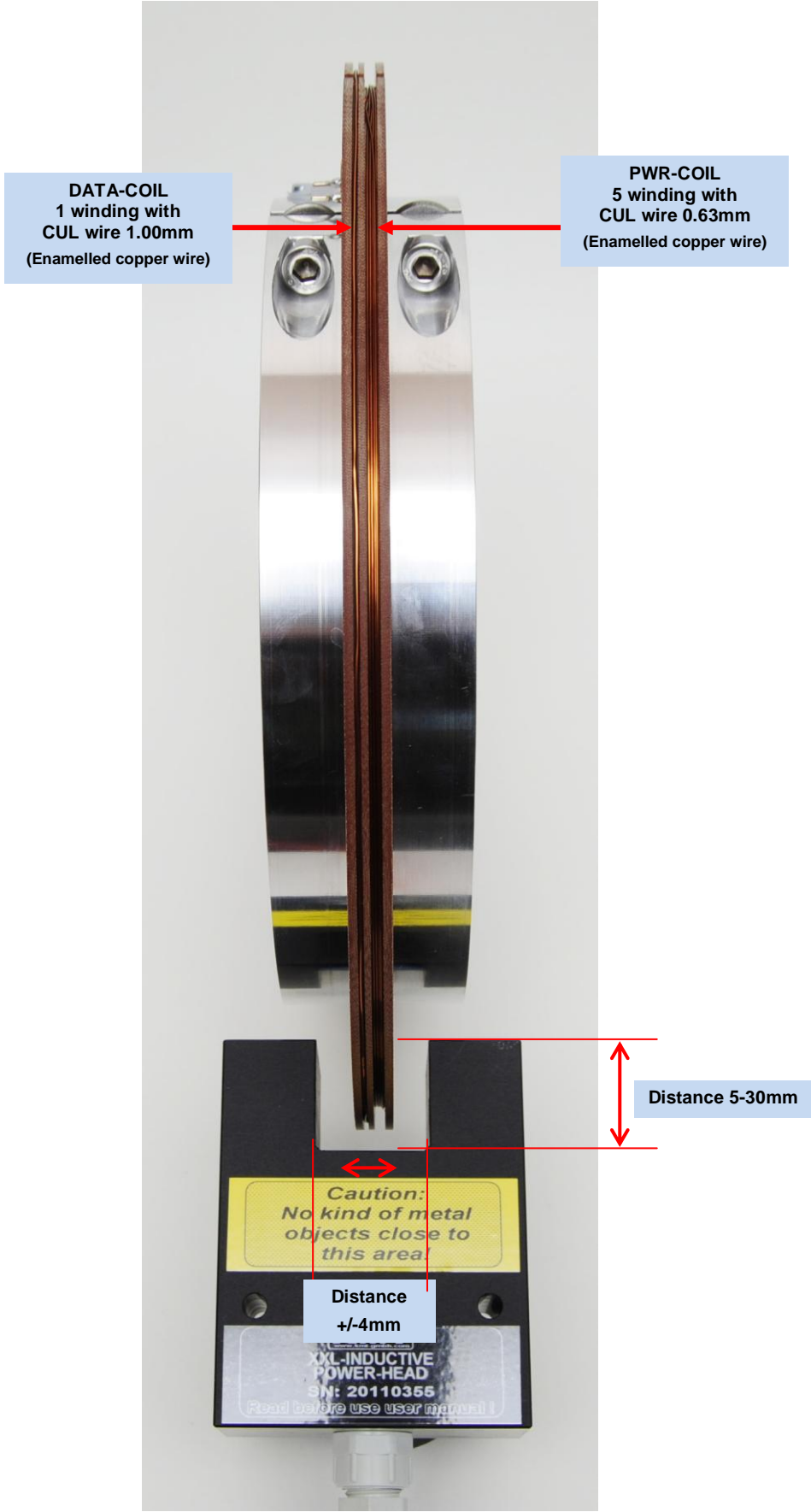


Weight about 35 grams

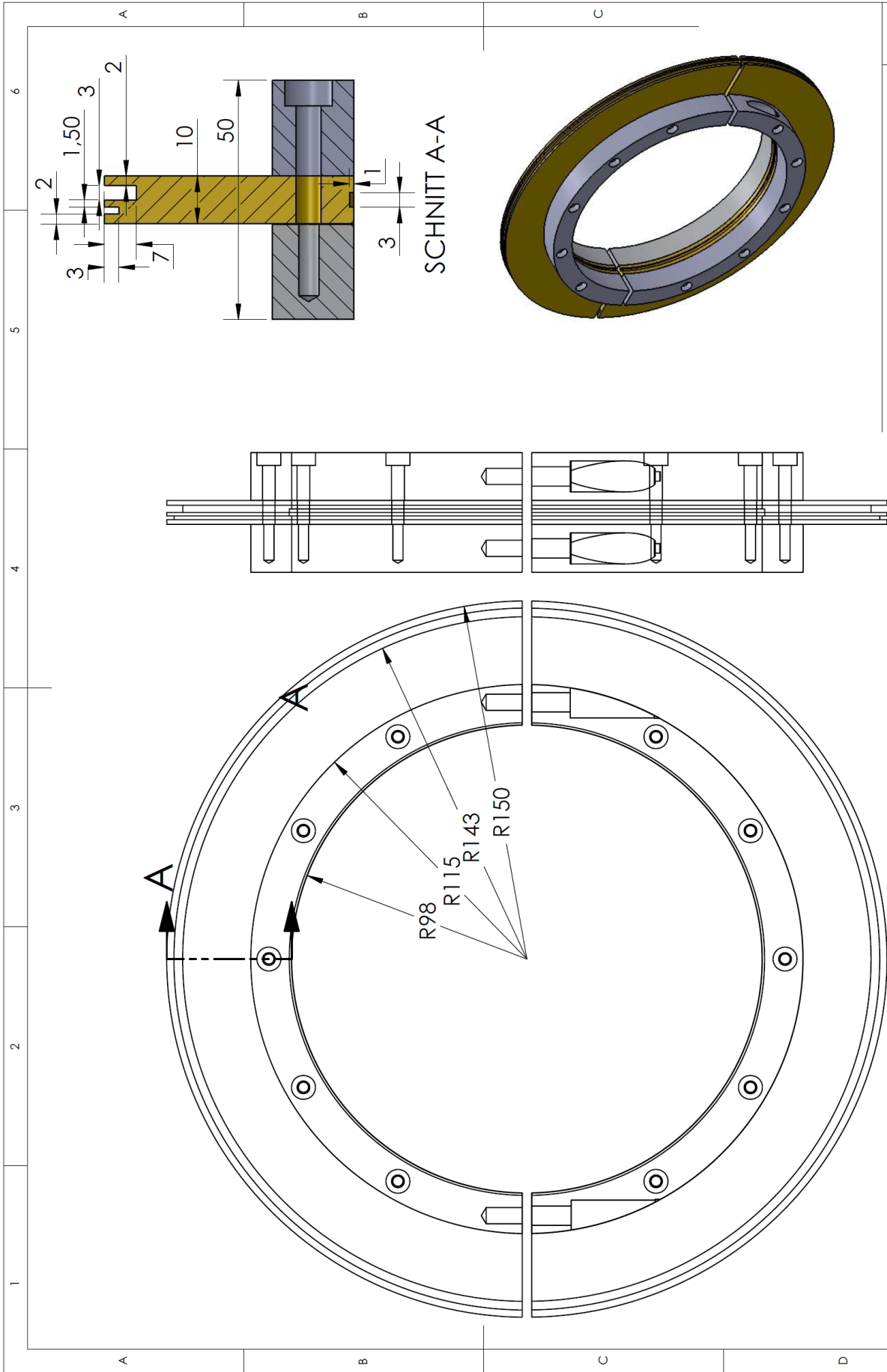
Inductive power supply RING COIL - Distance power head and pickup head



**Inductive power supply
RING COIL – Distance power head**



Inductive power supply RING COIL inner diameter 196mm



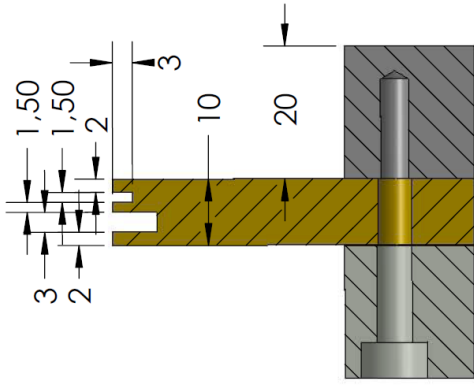
Ring196B

ZEICHNUNGSNR.

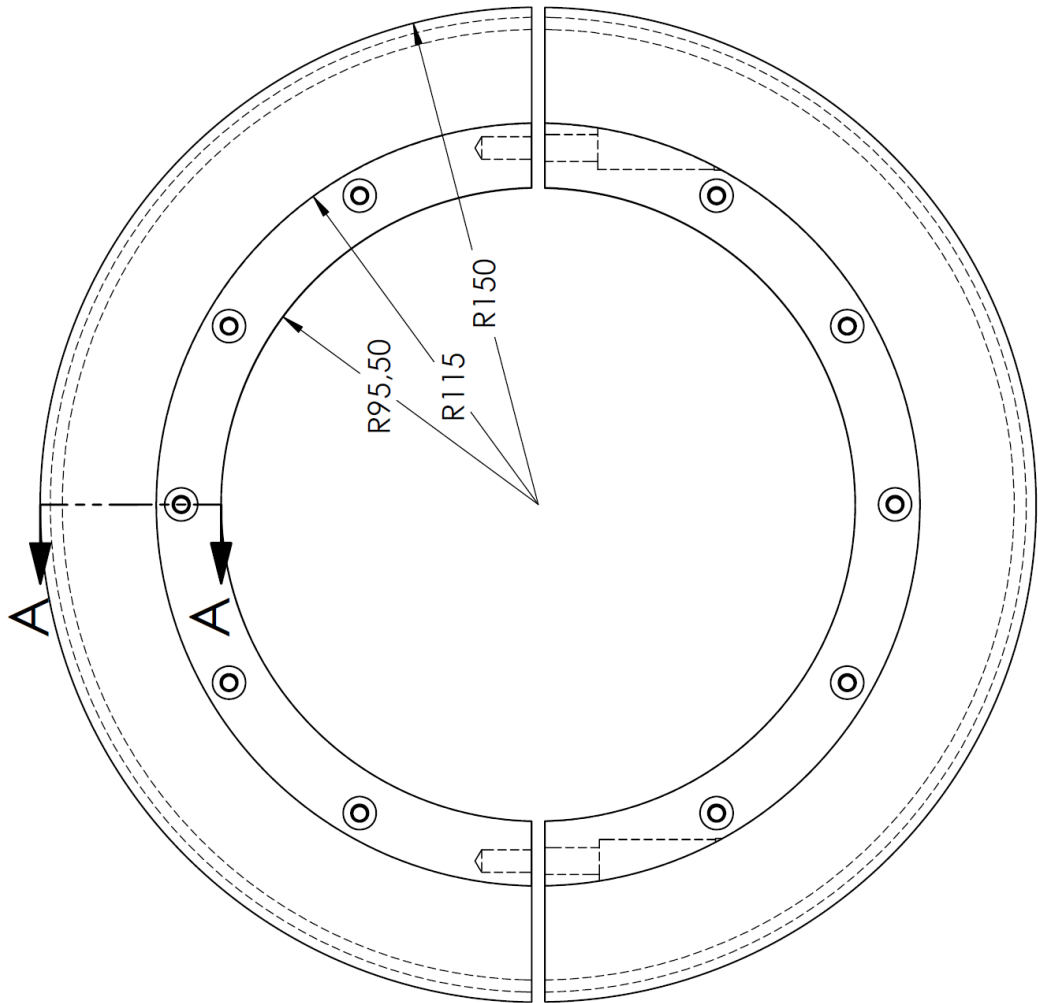
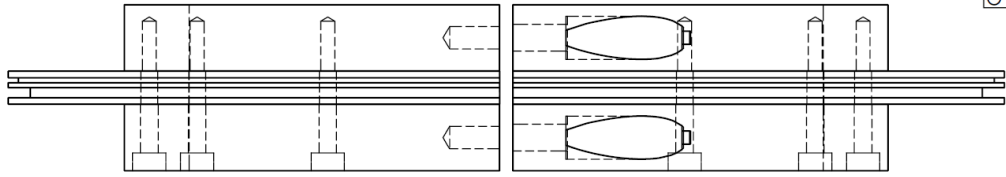
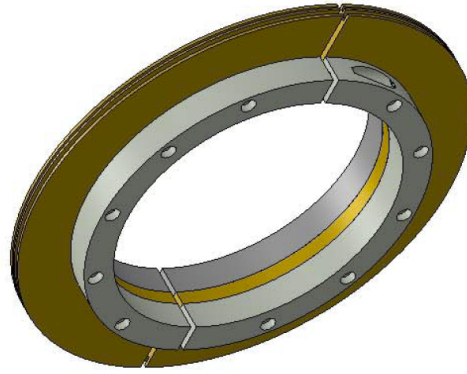
BLATT 1 VON 1

A4

Inductive power supply RING COIL inner diameter 191mm



SCHNITT A-A
MAßSTAB 1 : 1



GRÖSSE ZEICHNUNGSNR. **A** Ring191B

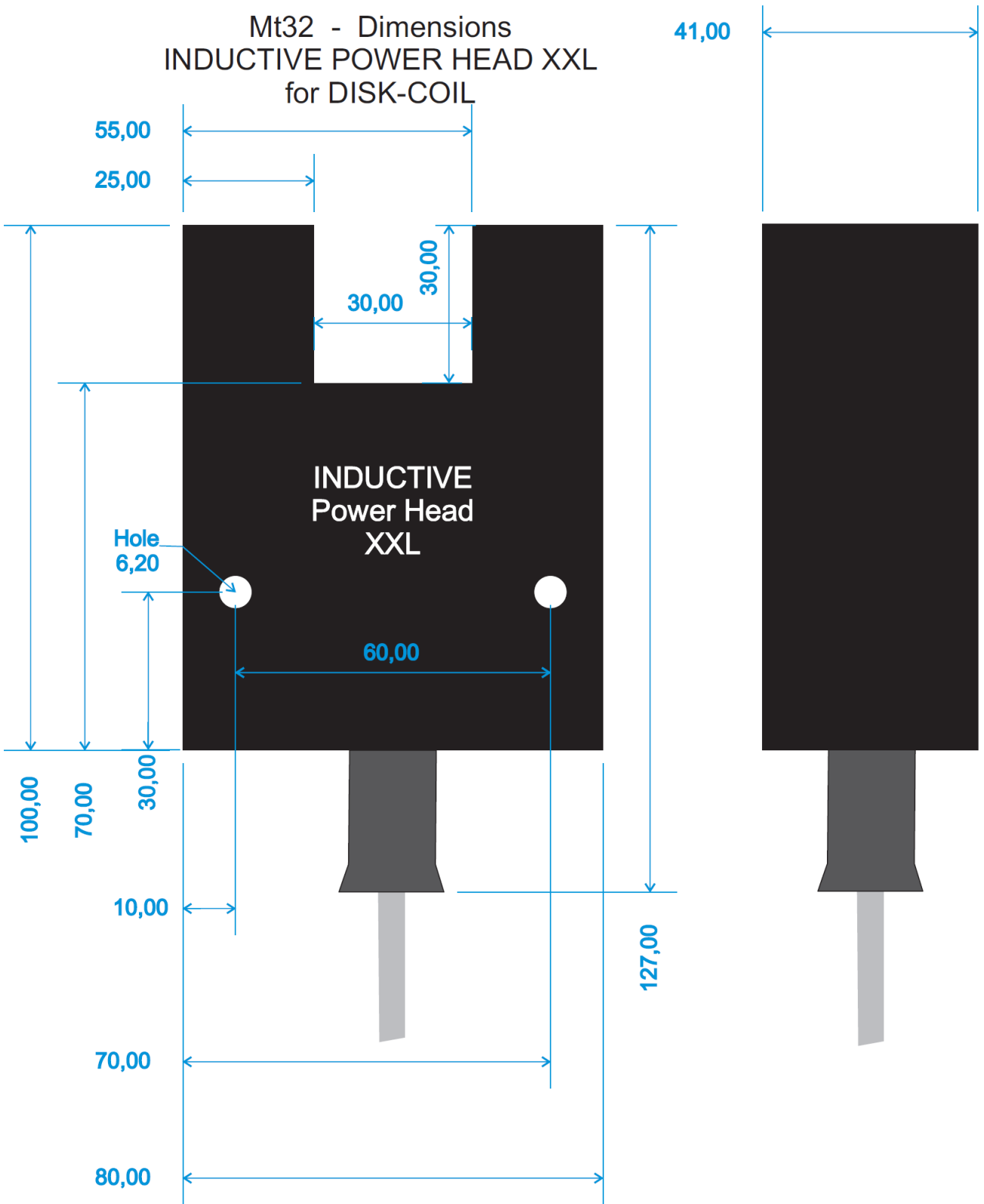
ÄND.

MAßSTAB: 1:5

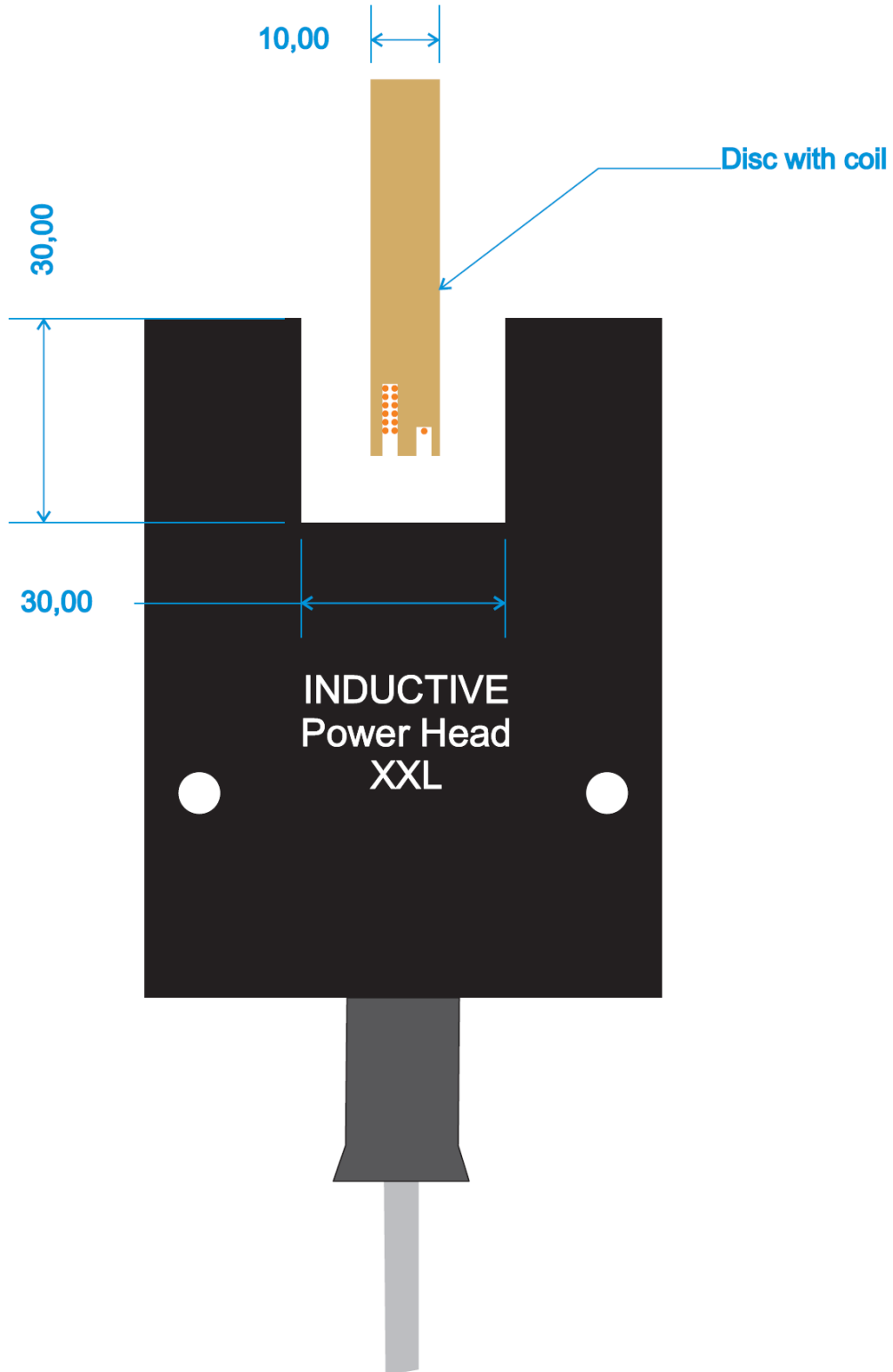
BLATT 1 VON 1

Dimensions of IND-PWR-HEAD-XXL

Mt32 - Dimensions
INDUCTIVE POWER HEAD XXL
for DISK-COIL



MT32 - Dimensions
INDUCTIVE POWER HEAD XXL
Coil distances

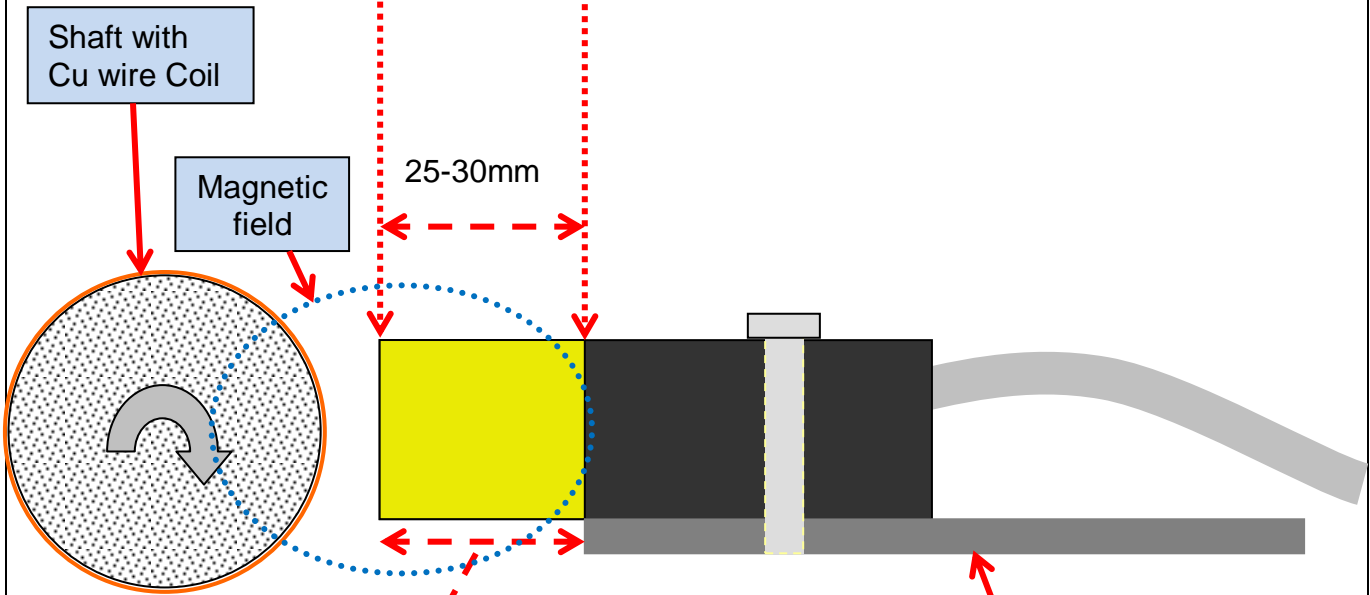


IND-PWR-HEAD-XXL



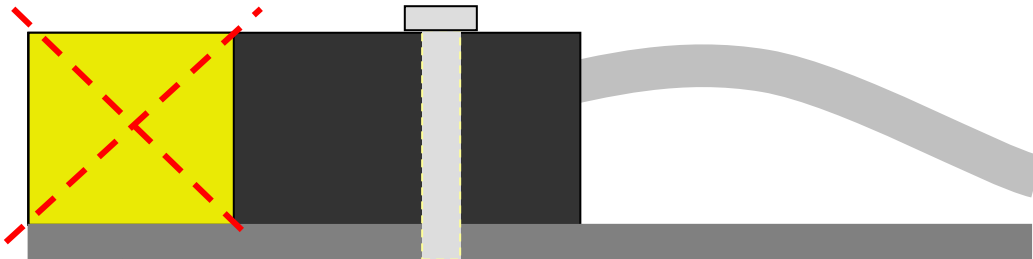
**Caution for use of power heads!
Cable must unrolled for use, otherwise it will warm up!**

Following must be considered at the mounting of the inductive power head



Don't use for mounting any kind metal in this area (25-30mm)! Otherwise magnetic energy will flow in the metal and decrease the distance between power head and coil (on shaft)!

Example of mounting



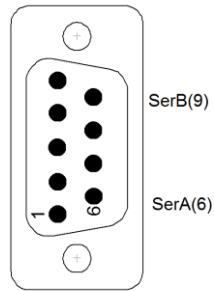
Wrong!!! Mounting (only if metal) plate cover the active area of

MT32-IND-PWR-XXL

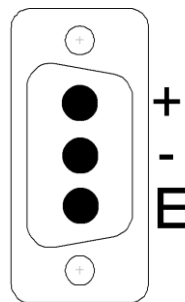
Pin connection



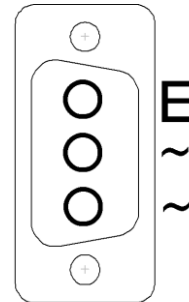
RS 485



CONTROL - Not used!



DC 24V
(100 WATT)



AC 25-35kHz output
for power head

E= have no function

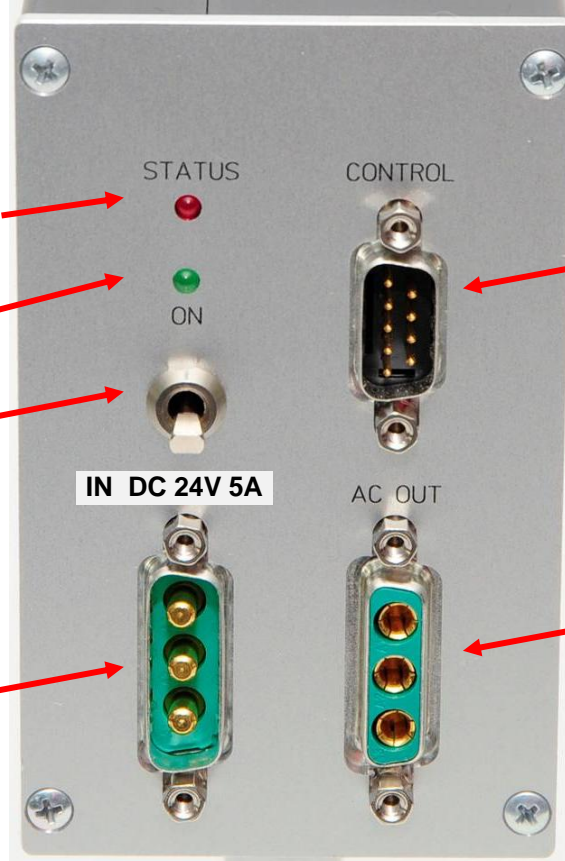
Powering and AC out

LED flashing = auto adjustment
LED ON = finish
IND-resonance of
Power head reached!

Power control LED

Power Switch

Power INPUT
DC 24V
(100WATT)



Control out of function

AC 25-35kHz output
for power head

Safety notes for inductive powering

- The device should only be applied by instructed personnel.
- The power head emits strong magnetic radiation at 30-60 kHz to a distance of 20 cm. Therefore persons with cardiac **pacemakers** should **not work** with this device!
- Magnetic data storage media should be kept in a distance of at least 3m from the power head to avoid data loss. The same is valid for electromagnetic sensitive parts, devices and systems.
- Do **not place** the power head in the switched-on state **on metallic objects**, because this results in eddy currents which could overload the device and strongly heat up small objects. Also the probe could be destroyed!
- No metallic objects, other than the disc-type coil, should be located in the air gap of the power head. The same applies to metallic parts within a radius of up to 30 mm in all directions.
- Do not use damaged or faulty cables!
- Never touch in the area between shaft and inductive head, the rotating shaft itself or rotor electronic contacts during operation!
- This is a "Class A" system suitable for operation in a laboratory or industrial environment. The system can cause electromagnetic interferences when used in residential areas or environments. In this case the operator is responsible for establishing protective procedures.