

## Transformer Coil S

Item numbers: 1001000, 1001001, 1001002, 1001003

### Instruction sheet

08/22 HJB



### 1. Safety instructions

The coils conform to the safety regulations for electrical test, control and laboratory equipment as specified in DIN EN 61010 Part 1. They are intended for use in dry rooms suitable for electrical equipment or installations.

Safe operation of the coils is guaranteed, provided they are used correctly. However, there is no guarantee of safety if the coils are used in an improper or careless manner.

If it is deemed that the coils can no longer be operated without risk (e.g. visible damage has occurred), the coils should be switched off immediately and secured against any inadvertent use.

In schools and training institutions, operation of the coils is to be responsibly supervised by trained personnel.



Depending on the set-up of the transformer, it may be possible to come into contact with dangerous voltages at the secondary coil.

- Any modifications to the transformer set-up must be made with the primary voltage switched off.
- Always use safety cables for experiments.
- Do not exceed the maximum voltage over any length of time.
- Do not open the coils' cases.
- Do not allow the equipment to come into contact with liquids.
- If the coils should become overloaded, they must be allowed to cool before switching on the current again.

The resulting magnetic fields can cause damage to or even destroy electrical/electronic components and equipment or electromagnetic storage media.

- Keep such items away from the coil by at least the amount specified for safety.

## 2. Description

Coils, safe to touch, for use as primary or secondary coils in combination with the transformer core S (1001004).

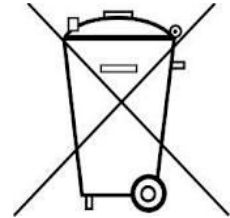
Coils are made of impact-resistant plastic. The ends and taps for the coils are equipped with safety sockets. Number of turns, effective resistance and inductance are specified on the case of the coil.

## 3. Accessories

1 Transformer core S	1001004
1 AC/DC Power Supply 20 V, 5 A (230 V, 50/60 Hz)	1003562
or	
1 AC/DC Power Supply 20 V, 5 A (115 V, 50/60 Hz)	1003561

## 4. Storage, cleaning and disposal

- Keep the coil in a clean, dry and dust-free place.
- Before cleaning the coil, disconnect it from its power supply.
- Do not clean the coil with volatile solvents or abrasive cleaners.
- Use a soft, damp cloth to clean it.
- The packaging should be disposed of at local recycling points.
- Should you need to dispose of the coil itself, never throw it away in normal domestic waste. Local regulations for the disposal of electrical equipment will apply.



## 5. Technical data

Maximum voltage:	50 V (safety extra-low voltage)
Connections:	4-mm safety sockets
Opening for iron core:	20x20 mm <sup>2</sup>

	<b>1001000</b>	<b>1001001</b>	<b>1001002</b>	<b>1001003</b>
<b>Winding turns</b>	600	800	1200	2400
<b>Taps</b>	200/400/600	400/800	400/800/1200	800/1600/2400
<b>Max. current</b>	800 mA	600 mA	400 mA	200 mA
<b>Inductance</b>	approx. 6 mH	approx. 10 mH	approx. 25 mH	approx. 100 mH