

DEUTROPULSHand Yoke for Magnetic Particle Inspection

Types 230 V 42 V

KARL DEUTSCH

The features of the DEUTROPULS Hand Yoke are shown below at a glance:

- Weight optimized design with high magnetization performance
- Ergonomic shape with a switch with a small stroke
- High voltage protection
- · High quality resin casted housing
- Easy exchangeable cable
- Replaceable switch with small stroke, sealed acc. to IP65, very high switching stability
- High-duty cycle
- Characteristics in compliance with EN ISO 9934-3:2002, ASTM E1444-05

Versions

The DEUTROPULS Hand Yoke is available in two versions:

The **230-V**-AC-version can be connected to the power supply system either directly or via an isolating transformer (230 V primary/230 V secundary) for galvanic isolation.

The **42-V**-AC-version (low supply voltage) is fed by an isolating transformer (Ord.-Nr. 3850.242), which is connected primary to 230 V and provides a secundary voltage of 42 V or 35 V respectively.

This version is to be used for the inspection within tanks and containers.



DEUTROPULS Hand Yoke with accessories in a sturdy hard case



Wide choice of attachment poles for the different measuring tasks

Safety

Before delivery each DEUTROPULS Hand Yoke is tested for...

- proper electric grounding
- high voltage resistance
- The 230-V-version is protected against overheating by an integrated temperature sensor.

Versions	42-V-version	230-V-version
Power supply	42 V~ 50/60 Hz 35 V~ 50/60 Hz	230 V~ 50/60 Hz
Duty cycle	50 % 100 %	50 %
Protection class (EN 60529)	IP 65	
Pole distance	140 mm	
with movable attachment poles	48 up to 235 mm	
Tangential field strength		
Steel block acc. to EN ISO 9934-3:2002	3,7 kA/m	
Steel block: 300 / 80 / 25 mm	5,8 kA/m	
Dimensions (W x H x D)	approx. 240 mm x 136 mm x 45 mm	
Weight	approx. 3,6 kg (incl. cable and pole shoes 10 mm)	
Cross sectional area of the poles	23 mm x 27,5 mm	
Maximum switch-on time	2 min.	
Lifting force	better than EN ISO 9934-3:2002 and AS	STM E1444-05

Order data / accessories / consumables	
order data/accessories/consumables	
	order no.
DEUTROPULS Hand Yoke 230 V	3446.230
without attachment poles, 5 m cable	
DEUTROPULS Hand Yoke 42 V	3446.042
without attachment poles, 5 m cable	
Attachment poles 10 mm (2 ea)	3852.102
Attachment poles 45° (2 ea)	3852.302
Attachment poles 60 mm (2 ea)	3852.402
Attachment poles 100 mm flexible	3852.202
Two-windings transformer	3850.322
primary 230 V, secondary 230 V	
Two-windings transformer	3850.242
primary 230 V/110 V, secondary 35 V/42 V	
Extension cable for Hand Yoke, 20 m	3839.200
Carrying case for DEUTROPULS Hand Yoke	3850.502
FLUXA testing agent for high contrast indications	refer to leaflet P90E

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