

## DEFECTOSCOP Standard Probes Surface probes 2.830.01-....



Fig. 1 Eddy current scanning coils for a wide variety of testing tasks

---

### Characteristics

- \* High sensitivity
- \* High electrical and mechanical stability
- \* Testing task-oriented:
  - Connection type of the coil system (absolute, differential)
  - Test frequencies (HF, LF)
  - Effective coil width
- \* Connection cable plug-in type
- \* Can be used with DEFECTOSCOP SD, DEFECTOSCOP AF, DEFECTOSCOP S

---

## Application

Manual crack testing during inspection and maintenance work

Determining the electrical conductivity of metals

Determining the ferrite content of austenitic steels

Measuring the thickness of electrically non-conductive coatings on non-ferromagnetic base material

Determining surface corrosion

Checking for material mix

Sensor tasks, e.g. for indicating "material present", "geometry change" and "material condition"

---

## Technical data

Coil type:

Scanning coil array in accordance with DIN 54140, Part 1,

1. Reflection method, parametric absolute system
2. Reflection method, parametric differential system

---

## Dimensions

HF absolute probe 12

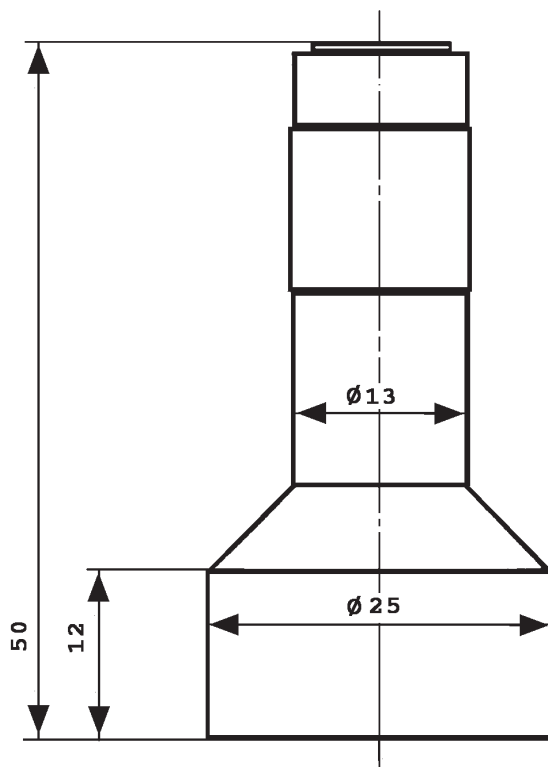
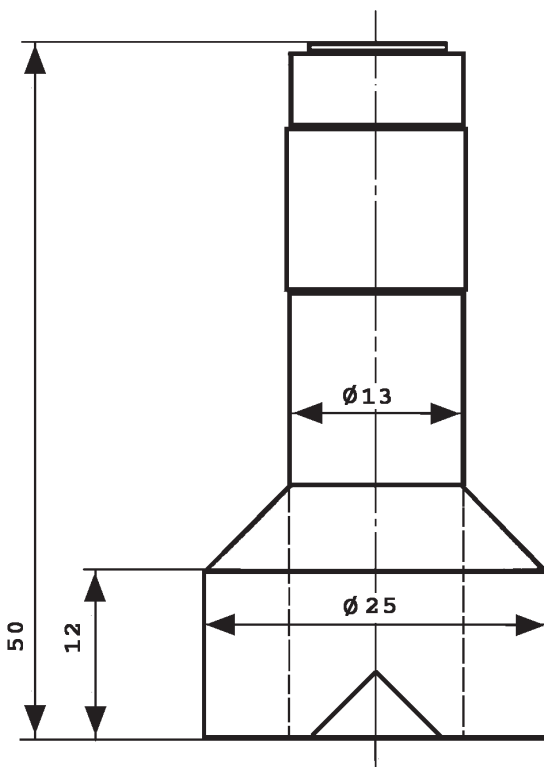
LF absolute probe 12

HF differential probe 12

LF differential probe 12

LF absolute probe 25

LF differential probe 25



	HF-absolute probe 12 102 161 3	LF-absolute probe 12 108 209 4	LF-absolute probe 25 102 169 9	Unit
Primary current	max. 1.4	max. 1.4	max. 1.4	A
Frequency range	10-1000	0.1-10	0.1-10	kHz
Effective width $B_W$	6	6	9	mm
Track width $B_S$	10	10	19	mm
Clearance behavior $K_A$	1.2	1.2	1.6	mm
Groove depth resolution $K_{NT}$	$\geq 5$	$\geq 5$	$\geq 5$	mm
Spatial resolution $K_O$	5	5	5	mm
Reference flaw length $K_L$	13	14	29	mm
Coil core	no	no	no	
Mass	ca. 15	ca. 15	ca. 20	g
Shield	no	no	no	

	LF-differential probe 12 102 176 1	LF-differential probe 12 102 183 4	LF-differential probe 25 108 214 0	Unit
Primary current	max. 1.4	max. 1.4	max. 1.4	A
Frequency range	10-1000	0.1-10	0.1-10	kHz
Effective width $B_W$	6	6	8.5	mm
Track width $B_S$				mm
Clearance behavior $K_A$	0.75	0.75	1.2	mm
Groove depth resolution $K_{NT}$	$\geq 5$	$\geq 5$	$\geq 5$	mm
Spatial resolution $K_O$	5	5	8	mm
Reference flaw length $K_L$				mm
Coil core	yes	yes	no	
Mass	ca. 15	ca. 15	ca. 20	g
Shield	no	no	no	

## Ordering instructions

Designation	Part-No.	Order-No.
HF absolute probe 12	2.830.01-2001	<b>102 161 3</b>
LF absolute probe 12	2.830.01-2011	<b>108 209 4</b>
LF absolute probe 25	2.830.01-2031	<b>102 169 9</b>
HF differential probe 12	2.830.01-2101	<b>102 176 1</b>
LF differential probe 12	2.830.01-2111	<b>102 183 4</b>
LF differential probe 25	2.830.01-2131	<b>108 214 0</b>
Connection cable, 3 m long	2.832.01-9902	<b>132 216 8</b>



Should you have any special problems please contact:

**Foerster Instruments Incorporated**

140 Industry Drive  
RIDC Park West  
Pittsburgh, Pa 15275-1028

Phone: (412) 788-8976

Fax: (412) 788-8984

sales@foerstergroup.com  
Information and illustration may be  
subject to change

Order No. 134 149 9  
Edition 08/92

