

# HSS 520 / 520 M

Short-Stroke High-Current Probe up to 24 A

**Grid:**

≥ 4,0 mm

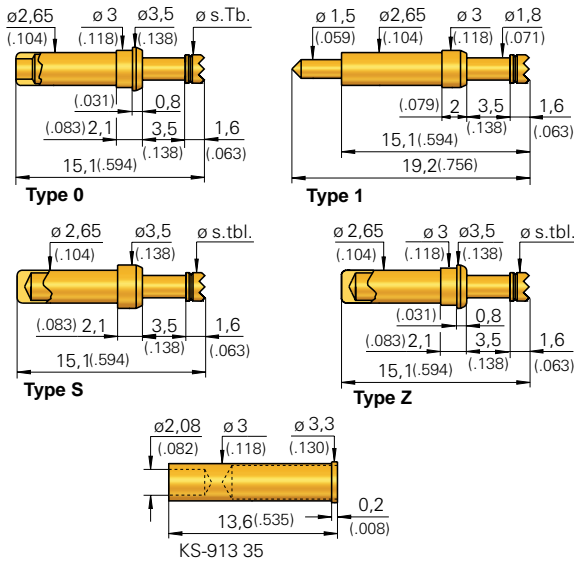
≥ 160 Mil

**Installation Height:** 7,2 mm (.283)

**Recommended Stroke:** 2,8 mm (.110)

## Mounting and Functional Dimensions

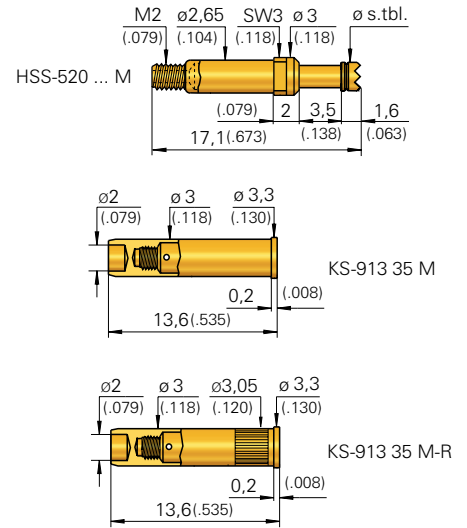
### HSS-520



## Available Tip Styles

Material	Tip Style	Plating	Further Versions	
			∅	∅ (inch)
3 06		A	∅ 2,30 (.091)	
3 06		A	∅ 3,50 (.138)	

### HSS-520 ... M



### Mechanical Data

**Working Stroke:** 2,8 mm (.110)  
**Maximum Hub:** 3,5 mm (.138)  
**Spring Force at Work. Stroke:** 1,5 N (5.4oz)

### Materials

**Plunger:** BeCu, gold-plated  
**Barrel:** Brass, gold-plated  
**Spring:** Stainless Steel  
**Receptacle:** Brass, gold-plated

### Electrical Data

**Current Rating:** 24 A  
**R<sub>i</sub> typical:** < 20 mΩ

### Mounting Hole Size

**in Material CEM 1 and FR 4:**  
**for KS-913 35:** ∅ 2,98 - 2,99 mm (.1173 - .1177)  
**for KS-913 35 M-R:** ∅ 3,00 - 3,02 mm (.1181 - .1189)  
**without Receptacle:** ∅ 2,65 mm (.1043)

### Collar Height and Installation Height

The Installation Height of the Tip is determined by the Collar Height.

Collar Height	Installation Height
02	7,2 mm (.283)

**Note:**

- | Typ | Version   |
|-----|---|
| 0   | End of Probe Barrel open                                |
| 1   | End of Probe Barrel with solder terminal                |
| M   | End of Probe Barrel with thread M2 for KS-913 35 M (-R) |
| S   | End of Probe Barrel closed; can be soldered into PCB    |
| Z   | End of Probe Barrel closed; can be soldered into PCB    |

Warning: Soldering the Probes demands great care. High temperatures must not reach the inside of the barrel, because this could destroy the spring.

The Receptacle KS-913 35 can only be combined with the Probe Types 0, S and Z. The Receptacle KS-913 35 M can only be combined with the Probe Type M.

**Tools:**

Insertion and Extraction Tools for GKS and KS see Page 118.

**Note:**

HSS-520 ... M will be screwed into Receptacle KS-913 35 M (-R), using special tools (see Page 170/171).

Recommended Screw-in Torque:  
 Min.: 5 Ncm / Max.: 10 Ncm

## Ordering Example

Series	Tip Material	Tip Style	Tip Diameter (1/100 mm)	Plating	Spring Force (dN)	Collar Height (mm)	Type
	3 = BeCu			A = Gold R = Rhodium			1, 0, S, M, Z

Test Probe:

H S S 5 2 0 3 0 6 2 3 0 A 1 5 0 2 M

Receptacles:

K S - 9 1 3 3 5 K S - 9 1 3 3 5 M K S - 9 1 3 3 5 M - R