# HC06

UTILITY MODEL

## High current block up to 50 A for Scratch contacting of contaminated surfaces

| | |
|---|---|
| **Centers (mm/mil)** | 12,0 / 472 |
| **Current (Power)** | 50 A |
| **Current (Sense)** | 0,5 A |
| **R typ** | <3 mOhm |
| **Temperature** | -40°C...+200°C (H) |

### Spring Force (cN ±20%)

| Version | Preload | Nominal |
|---|---|---|
| Sense pin | 40 | 80 |
| Circular cont. | 3x 50 | 3x 300 |

### Travel (mm)

| Version | Nominal | Maximum |
|---|---|---|
| Sense pin | 4,3 | 6,4 |
| Circular cont. | 4,0 | 5,0 |
| Thread (M) | | 5,0 |
| Wrench size | | 1,7 / 10,0 |

### Materials and Plating

| | |
|---|---|
| Plunger | BeCu, gold plated |
| Barrel | Brass, gold plated |
| Spring | Stainless steel, gold plated |
| Holder | Brass, silver plated |

### Accessories

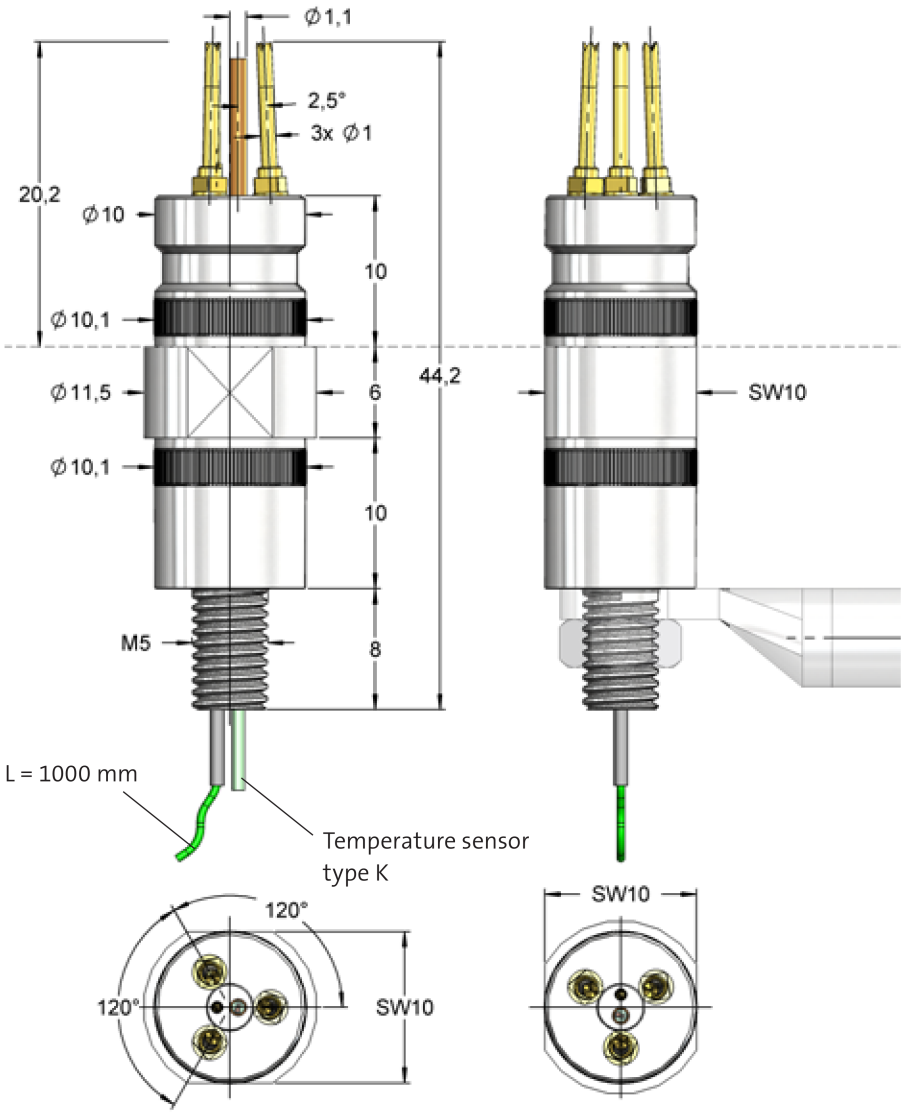
| | |
|---|---|
| Insertion tool holder | FDWZ-860C009 |
| Insertion tool Sense pin | FDWZ-050 |
| Screw-in tool probe circular cont. | FWZ732 (T) |

### Drill Size (mm)

| | |
|---|---|
| Receptacle with knurl | 10,00 - 10,05 |

### Projection Height (mm)

| | |
|---|---|
| HC06 | 12,8 |




A ring eye or a cable lug can be fixed to the M5 thread by a lock nut. The built-in threaded probes F732 can be changed with the screw-in tool FWZ732T. The high-current block can also be equipped with a temperature sensor type K. The high-current block can be mounted as a pure scratch contact, with sense pin and/or with temperature sensor type K. Technical specifications for temperature sensor type K (see next page). Connection recommendation Cable diameter 16 mm².

### Suitable for:

| Order Code | Tip Style | Bezeichnung | Sense | Sensor | Mounting with | Screw-in Tool |
|---|---|---|---|---|---|---|
| HC06A29009G | | 3x F732 KF29 | - | - | M5 | FWZ732 (T) |
| HC06B29010G | | 3x F732 KF29 | F040 KF18 | - | M5 | FWZ732 (T) |
| HC06D29011GTS4 | | 3x F732 KF29 | F040 KF18 | Typ K | M5 | FWZ732 (T) |

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**Specifications**
**Temperature Sensor Typ K**

| | |
|---|---|
| Measuring principle | thermocouple |
| Accuracy / grade | +/-2 °C |
| Response time t63 related to medium water | ca. 0,2-0,3 sec. |
| Response time t63 related to metal contact in air | ca. 1-2 sec. |
| Switching type | 2-wire |
| Receptacle potential-free / galvanically isolated | yes |
| Cable diameter | ca. 0,9 mm |
| Cable length | 1,2 m (not extendable) |
| Cable insulation | Teflon |
| Cable end | unassembled |

**Cell contact (representation without adapter)**

**Function:**

- A typical application of the coaxial probe is the contacting of cylindrical or Pouch cells in battery production and test applications, but also various other high current applications.

**Advantages:**

- Continuous current carrying capacity up to 50 A on cell pole < 6 mm
- Individually spring-loaded plungers with established scratch contact for current path for optimum contact on the typical cell conductors of LIB cells, also for uneven, passivated or contaminated contact surfaces
- Equipped with spring-loaded sense pin for the voltage path of the four-pole measuring and temperature sensor (TypeK)
- Low heating of less than 50K at full load
- Configurable variants from the modular system available
- Electrical connections via M5 thread
- Mounting by pressing into Ø10 mounting hole in contact direction universally possible (can also be laterally fixed)