



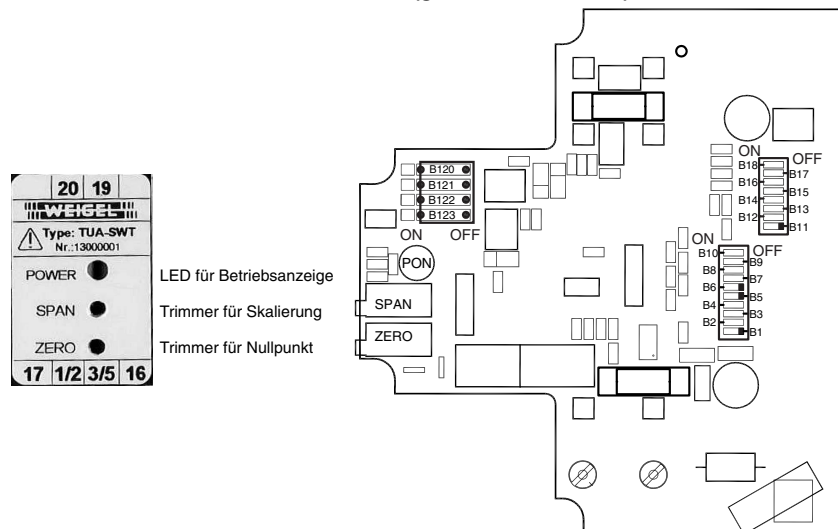
Trennverstärker für DC-Signale, umschaltbar

TUA – SWT Einstellungen

Achtung Vor dem Öffnen des Gehäuses und dem Ändern der DIP - Schalterpositionen, das Gerät abklemmen.

- Den rechten seitlichen Gehäusedeckel mit einem spitzen Schraubendreher öffnen.

Position der DIP - Schalter und Trimmer (geöffnetes Gehäuse)



DIP - Schalterpositionen für Ausgangsbereich

| Ausgang | B120 | B121 | B122 | B123 |
|----------------------|------|------|------|------|
| 0 ... 20 mA | ON | | | |
| 4 ... 20 mA | | ON | | |
| -20 ... 0 ... +20 mA | | | | |
| 0 ... 10 V | ON | | ON | ON |
| 2 ... 10 V | | ON | ON | ON |
| -10 ... 0 ... +10 V | | | ON | ON |

Feinabgleich

Achtung Vor dem unter Spannung setzen, auf korrekten Anschluss überprüfen.

- Eingang kurzschließen.
- Mit dem Trimmer "ZERO" auf Ausgang "0" abgleichen.
- Sollwert-Messgröße am Eingang anlegen.
- Mit dem Trimmer "SPAN" auf Sollwert-Ausgang abgleichen.
- Nullpunkt und Sollwert überprüfen
- Falls erforderlich, Vorgang wiederholen.

DIP - Schalterpositionen für Eingangsbereich

| Stromeingang | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | B9 | B10 | B11 | B12 | B13 | B14 | B15 | B16 |
|------------------------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 0 ... 0,1 mA | ON | | ON | | | | ON | | | ON | ON | | | | | |
| 0 ... 0,2 mA | ON | | ON | | | | | ON | | | ON | | | | | |
| 0 ... 0,5 mA | ON | | ON | | | | | | ON | ON | ON | | | | | |
| 0 ... 1 mA | ON | | ON | | | | ON | | | | ON | ON | | | | |
| 0 ... 2 mA | ON | | ON | | | | | ON | | | | ON | | | | |
| 0 ... 5 mA | ON | | | | ON | ON | ON | ON | | | ON | ON | | | | |
| 0 ... 10 mA | ON | | | | ON | ON | ON | | | | ON | ON | | | | |
| 0 ... 20 mA | ON | | | | ON | ON | | | | | | ON | | | | |
| 0,2 ... 1 mA | ON | | ON | | | | | ON | | ON | ON | ON | | | | ON |
| 1 ... 5 mA | ON | | ON | | | ON | ON | | ON | | | ON | | | | ON |
| 2 ... 10 mA | ON | | | | ON | ON | ON | | | ON | ON | ON | | | | ON |
| 4 ... 20 mA | ON | | | | ON | ON | ON | ON | | | ON | ON | | | | ON |
| -0,1 ... 0 ... +0,1 mA | ON | ON | | | | | | ON | | | | ON | | ON | ON | ON |
| -0,2 ... 0 ... +0,2 mA | ON | ON | | | | | | ON | | ON | | | | ON | ON | ON |
| -0,5 ... 0 ... +0,5 mA | ON | | ON | | | | | ON | | | ON | ON | | ON | ON | ON |
| -1 ... 0 ... +1 mA | ON | | ON | | | | | ON | | | | ON | | ON | ON | ON |
| -2 ... 0 ... +2 mA | ON | | ON | | | ON | | | ON | | | | | ON | ON | ON |
| -5 ... 0 ... +5 mA | ON | | | | ON | | | | | ON | | ON | | ON | ON | ON |
| -10 ... 0 ... +10 mA | ON | | | | | ON | ON | | | | | ON | | ON | ON | ON |
| -20 ... 0 ... +20 mA | ON | | | | ON | ON | ON | | | | | | | ON | ON | ON |

| Spannungseingang | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | B9 | B10 | B11 | B12 | B13 | B14 | B15 | B16 |
|------------------------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 0 ... 60 mV | | | | | | ON | | | | ON | ON | ON | | | | |
| 0 ... 100 mV | | | | | | | ON | ON | | ON | ON | | | | | |
| 0 ... 200 mV | | | | | | ON | | ON | ON | | ON | | | | | |
| 0 ... 500 mV | | | | | | ON | ON | ON | ON | | | | | | | |
| 0 ... 1 V | | ON | | | | ON | ON | ON | | | ON | ON | | | | |
| 0 ... 2 V | | ON | | | | | ON | ON | ON | | | ON | | | | |
| 0 ... 5 V | | ON | | | | | | ON | | | ON | | | | | |
| 0 ... 10 V | ON | | | | | | | | | | ON | ON | | | | |
| 0 ... 20 V | ON | | | | | ON | | | | | | ON | | | | |
| 0 ... 40 V | ON | | | | | | | ON | | | | | | | | |
| 0,2 ... 1 V | | ON | | | | | | | ON | ON | ON | ON | | | | ON |
| 1 ... 5 V | | ON | | | | ON | | ON | ON | | ON | ON | | | | ON |
| 2 ... 10 V | ON | | | | | ON | ON | | | ON | ON | ON | | | | |
| 4 ... 20 V | ON | | | | | ON | ON | ON | | | | ON | ON | | | ON |
| -100 ... 0 ... +100 mV | | | | | | ON | | ON | ON | | ON | | | ON | ON | ON |
| -200 ... 0 ... +200 mV | | | | | | ON | ON | | ON | ON | | | | ON | ON | ON |
| -500 ... 0 ... +500 mV | ON | | | | | | ON | ON | ON | | ON | ON | | ON | ON | ON |
| -1 ... 0 ... +1 V | | ON | | | | | ON | ON | ON | | | ON | | ON | ON | ON |
| -2 ... 0 ... +2 V | | ON | | | | ON | | ON | ON | ON | | | | ON | ON | ON |
| -5 ... 0 ... +5 V | ON | | | | | | | | | | ON | ON | | ON | ON | ON |
| -10 ... 0 ... +10 V | ON | | | | | ON | | | | | | ON | | ON | ON | ON |
| -20 ... 0 ... +20 V | ON | | | | | | | ON | | | | | | ON | ON | ON |

B17 und B18 ohne Funktion

– Technische Änderungen vorbehalten; Stand 09/15 –

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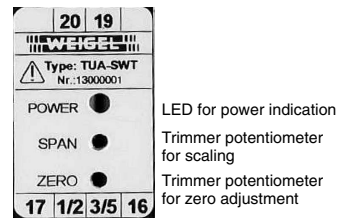
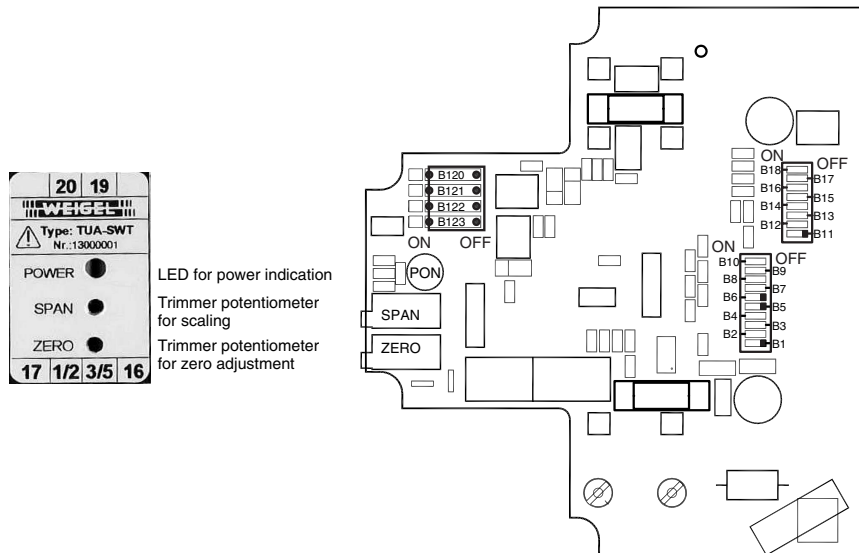
Isolating Amplifier for DC Signals, Switchable

TUA-SWT Settings

Attention Disconnect the device before opening the case and changing the DIP switch positions.

- Open the right-hand case cover by using a pointed screwdriver.

Position of the DIP switches and trimmers (case opened)



DIP switch positions for output range

| Output | B120 | B121 | B122 | B123 |
|----------------------|------|------|------|------|
| 0 ... 20 mA | ON | | | |
| 4 ... 20 mA | | ON | | |
| -20 ... 0 ... +20 mA | | | | |
| 0 ... 10 V | ON | | ON | ON |
| 2 ... 10 V | | ON | ON | ON |
| -10 ... 0 ... +10 V | | | ON | ON |

Fine adjustment

Attention Check correct connection before power-on.

- Short-cut the input.
- Adjust output to “0” using the “ZERO” trimmer potentiometer.
- Apply rated measuring unit to input.
- Adjust output to rated output value using the “SPAN” trimmer potentiometer.
- Check zero and rated value.
- Repeat the procedure, if necessary.

DIP switch positions for input range

| Current input | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | B9 | B10 | B11 | B12 | B13 | B14 | B15 | B16 |
|------------------------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 0 ... 0.1 mA | ON | | ON | | | | ON | | | ON | ON | | | | | |
| 0 ... 0.2 mA | ON | | ON | | | | | ON | | | ON | | | | | |
| 0 ... 0.5 mA | ON | | ON | | | | | | ON | ON | ON | | | | | |
| 0 ... 1 mA | ON | | ON | | | | ON | | | ON | ON | | | | | |
| 0 ... 2 mA | ON | | ON | | | | | ON | | | ON | | | | | |
| 0 ... 5 mA | ON | | | | ON | ON | ON | ON | | ON | ON | | | | | |
| 0 ... 10 mA | ON | | | | ON | ON | ON | | | ON | ON | | | | | |
| 0 ... 20 mA | ON | | | | ON | ON | | | | | ON | | | | | |
| 0.2 ... 1 mA | ON | | ON | | | | | ON | | ON | ON | ON | | | ON | |
| 1 ... 5 mA | ON | | ON | | | ON | | | ON | | ON | ON | | | ON | |
| 2 ... 10 mA | ON | | | | ON | ON | ON | | | ON | ON | ON | | | | |
| 4 ... 20 mA | ON | | | | ON | ON | ON | ON | | | ON | ON | | | | ON |
| -0.1 ... 0 ... +0.1 mA | ON | | ON | | | | | ON | | | ON | | ON | ON | | ON |
| -0.2 ... 0 ... +0.2 mA | ON | | ON | | | | | ON | | ON | | | ON | ON | | ON |
| -0.5 ... 0 ... +0.5 mA | ON | | | ON | | | | ON | | ON | ON | ON | ON | ON | ON | ON |
| -1 ... 0 ... +1 mA | ON | | ON | | | | | ON | | | ON | | ON | ON | ON | ON |
| -2 ... 0 ... +2 mA | ON | | | ON | | | | | ON | | | | ON | ON | ON | ON |
| -5 ... 0 ... +5 mA | ON | | | | ON | | | | | ON | ON | ON | ON | ON | ON | ON |
| -10 ... 0 ... +10 mA | ON | | | | | ON | ON | | | | ON | ON | ON | ON | ON | ON |
| -20 ... 0 ... +20 mA | ON | | | | ON | ON | ON | | | | | | ON | ON | ON | ON |

| Voltage input | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | B9 | B10 | B11 | B12 | B13 | B14 | B15 | B16 |
|------------------------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 0 ... 60 mV | | | | | | ON | | | | ON | ON | ON | | | | |
| 0 ... 100 mV | | | | | | | ON | ON | | ON | ON | | | | | |
| 0 ... 200 mV | | | | | | ON | | ON | ON | | ON | | | | | |
| 0 ... 500 mV | | | | | | ON | ON | ON | ON | | | | | | | |
| 0 ... 1 V | | ON | | | | ON | ON | ON | | ON | ON | | | | | |
| 0 ... 2 V | | ON | | | | | ON | ON | ON | | ON | | | | | |
| 0 ... 5 V | | ON | | | | | | ON | | ON | | | | | | |
| 0 ... 10 V | | ON | | | | | | | | ON | ON | | | | | |
| 0 ... 20 V | | ON | | | | ON | | | | | ON | | | | | |
| 0 ... 40 V | | ON | | | | | | ON | | | | | | | | |
| 0.2 ... 1 V | | ON | | | | | | | ON | ON | ON | ON | | | ON | |
| 1 ... 5 V | | ON | | | | ON | | ON | ON | ON | | ON | | | ON | |
| 2 ... 10 V | | ON | | | | ON | ON | | | ON | ON | ON | | | ON | |
| 4 ... 20 V | | ON | | | | ON | ON | ON | | | ON | ON | | | | ON |
| -100 ... 0 ... +100 mV | | | | | | ON | | ON | ON | | ON | | ON | ON | | ON |
| -200 ... 0 ... +200 mV | | | | | | ON | ON | | ON | ON | | | ON | ON | | ON |
| -500 ... 0 ... +500 mV | | ON | | | | | ON | ON | ON | ON | ON | | ON | ON | ON | ON |
| -1 ... 0 ... +1 V | | ON | | | | | ON | ON | ON | | ON | | ON | ON | ON | ON |
| -2 ... 0 ... +2 V | | ON | | | | ON | | ON | ON | ON | | | ON | ON | ON | ON |
| -5 ... 0 ... +5 V | | ON | | | | | | | | ON | ON | | ON | ON | ON | ON |
| -10 ... 0 ... +10 V | | ON | | | | ON | | | | | ON | | ON | ON | ON | ON |
| -20 ... 0 ... +20 V | | ON | | | | | | ON | | | | | ON | ON | ON | ON |

B17 and B18 no function

– Specifications subject to change without notice; date of issue 09/15 –

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