

Bridge Amplifier for 2 x 1/4 Strain Gage Bridge DABU AD2T-2Q

Features

- Industrial bridge amplifier for 2 x 1/4 S/G
- For cyclical applications with reset function
- Voltage output
- Protection class IP 65



Electrical Data

| | |
|--------------------------------|---|
| Output signal | ±10 V calibrated (max. ±12 V) |
| Characteristic curve deviation | < 0,2% |
| Supply voltage range | 18 - 33 VDC |
| Current draw | < 60 mA < 40 mA @ 24 VDC |
| Bridge excitation | approx. 7 VDC |
| S/G bridge resistance | 350 Ω (R _C) |
| Output impedance | 22 Ω |
| Tare accuracy | 0250 < 15 mV 0350 < 12 mV 0500 < 7 mV 1000 < 5 mV |
| Reset input | active 5 - 33 VDC < 2 mA inactive < 1 VDC |
| Tare range | ±6 mV/V |
| Reset puls | > 1 ms |
| Reset settle time | < 5 ms |
| Frequency range (-3 dB) | 1'000 Hz |
| Signal polarity | Bipolar |
| Noise | (0 ... 5 kHz) 0250 < 15 mV _{pp} 0350 < 12 mV _{pp} 0500 < 7,5 mV _{pp} 1000 < 5 mV _{pp} |

Mechanical Data

| | |
|--------------------|---------------------------|
| Control connection | 5 pin male (Series 713) |
| Sensor connection | 4 pin female (Series 712) |
| Enclosure | aluminum anodised |

Environmental Conditions

| | |
|-----------------------|---------------|
| Operating temp. range | -25...+85 °C |
| Specified temp. range | 0...+70 °C |
| Storage temperature | -40...+100 °C |
| Protection class | IP 65 |

Order Code

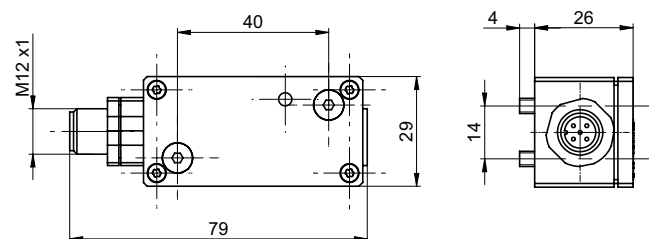
DABU AD2T-2Q



Gain

| | |
|-------------|--------------------|
| 0250 | 0250 µε = 0 - 10 V |
| 0350 | 0350 µε = 0 - 10 V |
| 0500 | 0500 µε = 0 - 10 V |
| 1000 | 1000 µε = 0 - 10 V |

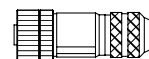
Dimensions (mm)



Delivery Contents

- Mounting screw 2 pcs. M4 x 30

Accessories (not included in delivery)



Series 713

Bushing, control side, 5-pin, Part No. 10135462



M12 x 1

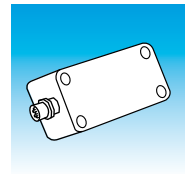
Bushing with cable, control side, 5-pin

ES 34CP2B 5-pin (shielded) 2 m, PUR,
(Part No. 10144720)

ES 34CP5B 5-pin (shielded) 5 m, PUR,
(Part No. 10137485)

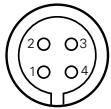
ES 34CP10B 5-pin (shielded) 10 m, PUR,
(Part No. 10155587)

Flylead connector, sensor side, 4-pin., series 712
(Part No. 10136268)



Electrical Connection

Sensor side Series 712



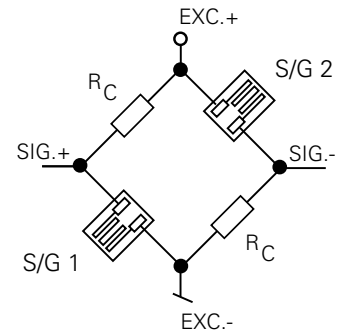
| Pin | Signal |
|-----|-------------|
| 1 | DMS 1 EXC.+ |
| 2 | DMS 1 SIG.- |
| 3 | DMS 2 SIG.+ |
| 4 | DMS 2 EXC.- |

Control side Series 713

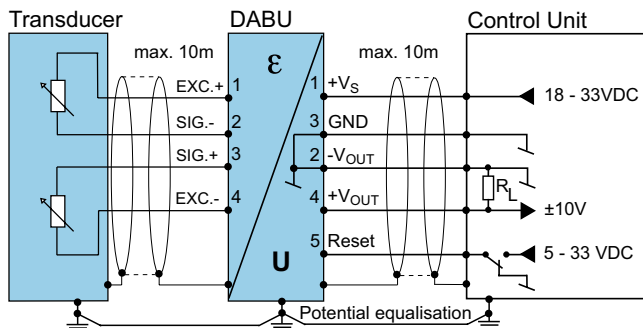


| Pin number | Signal |
|------------|-------------------|
| 1 | +Vs |
| 2 | -V _{OUT} |
| 3 | GND |
| 4 | +V _{OUT} |
| 5 | Reset |

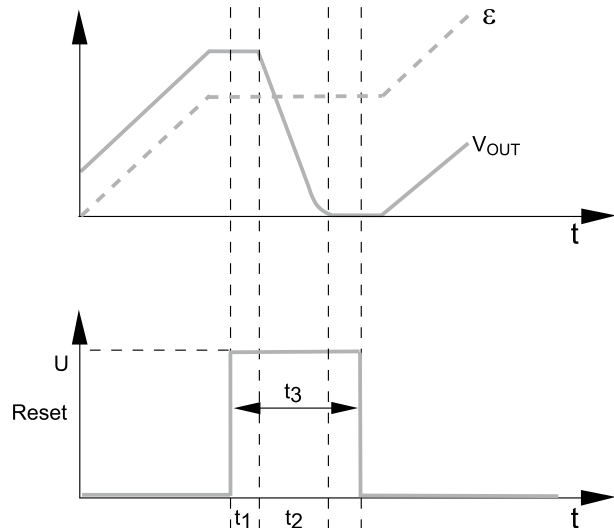
S/G Bridge



Control



Reset Function



| | |
|------------------|---------------------------|
| V _{OUT} | Output signal |
| ε | Input signal |
| Reset | Reset input (active high) |
| t ₁ | Reset delay (< 0,3 ms) |
| t ₂ | Reset time (< 5 ms) |
| t ₃ | Reset impuls (> 1 ms) |