

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

Features

- Industrial bridge amplifier for 2 x 1/4 S/G bridge
- 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. 9 VDC
S/G bridge resistance	350Ω (R_C)
Output impedance	22Ω
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

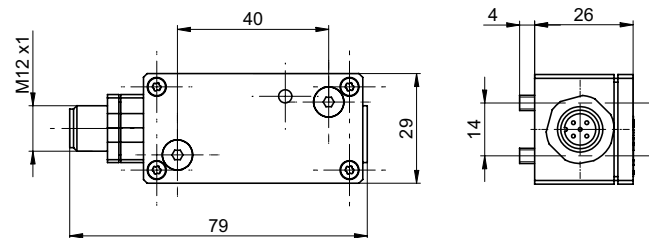
DABU AD2T-2Q



Gain

0250	0250 $\mu\epsilon = 0 - 10$ V
0350	0350 $\mu\epsilon = 0 - 10$ V
0500	0500 $\mu\epsilon = 0 - 10$ V
1000	1000 $\mu\epsilon = 0 - 10$ V

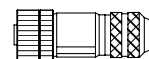
Dimensions (mm)



Delivery Contents

- Mounting screw 2 pcs. M4 x 30

Accessories (not included in delivery)



Series 713

Connector female, control side, 5-pin, Part No. 10135462



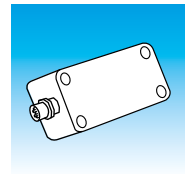
M12 x 1

Connector female with cable, control side, 5-pin

ESG 34CH0200G 5-pin (shielded) 2 m, PUR,
(Part No. 11046264)

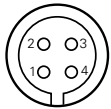
ESG 34CH0500G 5-pin (shielded) 5 m, PUR,
(Part No. 11046266)

ESG 34CH1000G 5-pin (shielded) 10 m, PUR,
(Part No. 10155587)



Electrical Connection

Sensor side Series 712



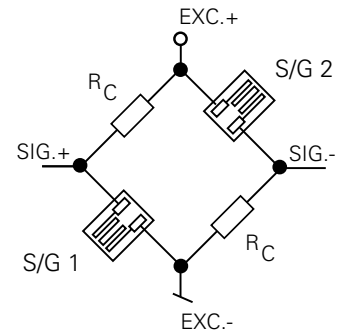
Pin	Signal
1	DMS 1 EXC.+
2	DMS 1 SIG.-
3	DMS 2 SIG.+
4	DMS 2 EXC.-

Control side Series 713

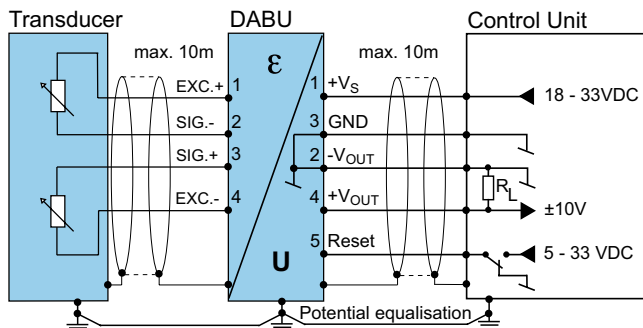


Pin number	Signal
1	+Vs
2	-V _{OUT}
3	GND
4	+V _{OUT}
5	Reset

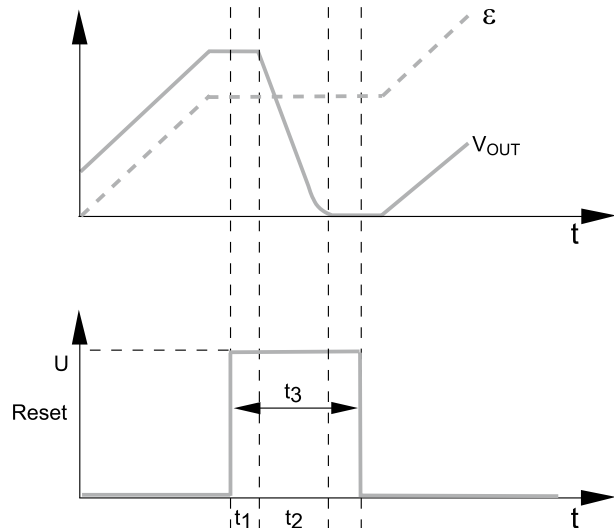
S/G Bridge



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)