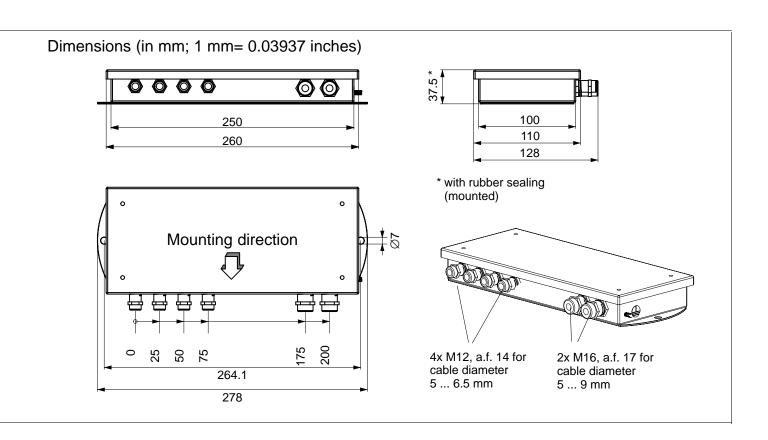
VKIA405

Digital Amplifier



Special features

- Amplifiers for connection of 4 strain-gage load cells / transducers
- RS-485 2-wire interface
- For simple weighing and control tasks not subject to legal-for-trade regulations
- Supply voltage range 12...30 V
- Degree of protection IP65 per EN 60 529
- EMC protection





Specifications

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Type		VKIA405
Accuracy class		0.1
Resistor network for off-center load compensation	Ω	0.395.71 (in 15 steps)
Nominal (rated) voltage)	V_{DC}	24
Voltage supply	V_{DC}	1230
Nominal temperature range		-10+50 [+14+122]
Operating temperature range	°C [°F]	-20+70 [-4158]
Storage temperature range		-40+85 [-40185 <u>]</u>
Humidity, rel., non-condensing	%	585
Weight, approx.	kg	1
Degree of protection according to EN 60529 (IEC 529)		IP65 (dust-tight and protected against water jets)
Material: Housing		Sheet steel powder-coated housing: RAL 7035
Sleeve nut		4 x M12, a.f. 14; 2 Sx M16, a.f.17 nickel-plated brass
Clamping cone		Neoprene
Integrated electronics		
Bridge resistance of each transducer (max. 4)	Ω	3001000
Cable length of each transducer	m	6
Bridge excitation voltage ¹⁾	V _{AC}	5
Max. measuring range	mV/V	± 3.0
Measuring signal resolution	Bit	24 (with 1Hz)
Sampling rate (depending on output format and baud rate)	Hz	200; 100; 50; 25; 12; 6; 3; 2; 1
Cut-off frequency of the digital filter, adjustable; with -3dB	Hz	200.05
Cable lengths between electronics and computer with RS-485	m	≤ 500
Non-linearity, related to the sensitivity	%	± 0.025
Effect of temperature per 10K		
on the zero point, related to the full scale value	%	± 0.02
on the measuring sensitivity, related to the actual value	%	± 0.05
Serial interfaces electrical level (RS-485, differential)	V	Low: B-A < 0.35 High: B-A > 0.35
Baud rate, adjustable	Baud	1 200115 200
Max. voltage on control output = supply voltage	V	1230
Max. current load, control output	mA	500
Current consumption (with 350 Ω transducer)	mA	≤ 60

¹⁾ Depending on the number of connected transducers

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