CS18 Optional Extra

Sensor SUPPLY internal





Applications

 Provides proper connection of several kinds of sensors to a voltage input of a measurement device (here: CS18 VCU). Sensor is plugged in at input. Signal output is connected to CS18 VCU input. Provides DC supply voltage(s) for sensor and performs signal preconditioning

Range of Use

- Certified Calibration laboratories
- Departments of measuring instrument verification in research, development and industry, particularly in automotive crash test laboratories
- Quality assurance in the sensor manufacturing

Features

- Supply of typical supply voltage for sensors
- short-circuit-proof power supply
- Pre-conditioning of the sensor output signal
- Impedance converter
- Optional DC reject high pass 0.01 Hz
- · Custom made design for several types of sensor

CS18 Optional Extra

Sensor SUPPLY internal



Components

- Plug-in module for CS18 vibration control system SRS-35, SPEKTRA
- Sensor In socket, Signal Out socket, Indicator LEDs

or supply		
Voltage Range	Unipolar:	+15 V _{DC} , +/- 2% (Type D,P,K)
		or custom made + 5 V_{DC} + 15 V_{DC}
	Bipolar:	+15 V_{DC} , -15 V_{DC} ,+/-2% (Type E)
		or custom made +/- 5 V_{DC} +/- 15 V_{DC}
Current	max. 100 mA (polyfuse-protected)	
ions and Parameters		
Balanced differential input	Gain (0 - 5 kHz):	1 +/- 0.02%
(Type D, E, K)	Gain (0 - 10 kHz):	1 +/- 0.05%
	Gain (0 - 20 kHz):	1 +/- 0.2%
	Gain (0 - 50 kHz):	1 +/- 1% (Uimax=1 V)
	Signal Delay:	0.4 μs (typical) (<=20 kHz; 20 50 kHz, 1V)
	Voltage range:	+/-10 V _{peak}
Grounded input	Gain (0 - 10 kHz):	1 +/- 0.02%
(Type P)	Gain (0 - 50 kHz):	1 +/- 0.1%
	Signal Delay:	0.2 μs (typical)
	Voltage range:	+/-10 V _{peak}
Common	Input impedance	10 MOhm
Sample sensors	Type P (+15 V _{DC}):	PCB 3701_ (grounded input)
	Type D (+15 V _{DC}):	Dytran 7500A_ (differential input)
	Type K (+15 V _{DC}):	Kistler 83_ (differential input)
	Type E (+15 V _{DC}):	Endevco 7290A (differential input)

Optional extras for the sensor supply

- 1 to 4 channels
- Individual customer-specific connectors and connector pin assignments
- Customized sensor supply voltage(s)

Also available as VCU plug in module "Sensor SUPPLY external" See also PR-Module for bridged piezo resistive sensors

All data are subject to change without notice