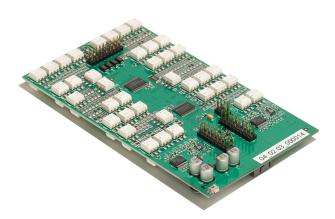
# **Expansion Board Digital Multichannel Pot.**





- 4 independent, galvanically isolated, AC-capable channels
- Wide range of resistance: 50 Ohm to 500 kOhm
- High accuracy and 19 Bit Resolution
- Overcurrent protection
- Non-mechanical solid-state switches

### The Digital Multichannel Potentiometer Expansion

**Board** extends the functionality of the **µLC Test System** by seamless integration into an existing device. It offers four independently configurable, galvanically isolated digital potentiometers with a wide range of resistance and excellent accuracy. All four channels feature individual protection by an automatic overcurrent shutdown with automatic retry.

#### Application

**Emulating Sensor Data** 

Designed to work for example with the sensor interface L9966 (FlexI)

#### **Technical Specifications**

Maximum voltage on any input referred to  $$-24$ to 24$ V $\mu$ LC-GND

### **Electrical Characteristics**

Parameter	Value	Unit	
Minimum Resistance	50	Ohm	
Maximum Resistance	500	kOhm	
Step Size	1	Ohm	
Resolution	19	Bit	
Accuracy			
Parameter	Value		
Entire Range	±0.5 Ohm	±0.5 Ohm ±1 %	

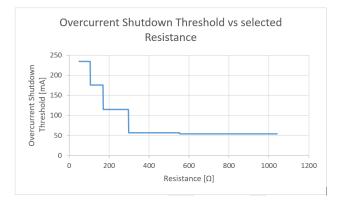
**Legal Restrictions** 

The sale of this product in Mexico is prohibited. Due to embargo restrictions, sale of this product in Russia, Belarus, Iran, Syria, and North Korea is prohibited.

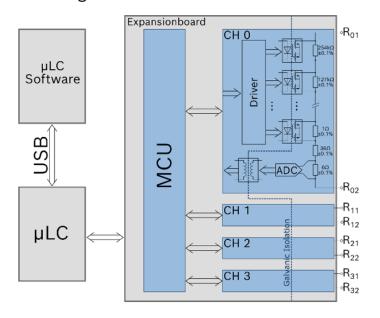
#### **Ordering Information**

Expansion Board Digital Multichannel Pot. Order number F02U.V03.129-01

#### Dimensions



## Block diagram:



Represented by:

Europe: Bosch Engineering GmbH Bosch Engineering GmbH Motorsport Robert-Bosch-Allee 1 74232 Abstatt Germany Tel.: +49 7062 911 9101 Fax: +49 7062 911 79104 motorsport@bosch.com motorsport@bosch.com www.bosch-motorsport.de North America: North America: Bosch Engineering North America Motorsport 38000 Hills Tech Drive Farmington Hills, MI 48331-3417 United States of America TeL: +1 248 876 2977 Fax: +1 248 876 7373 motorsport@bosch.com motorsport@bosch.com www.bosch-motorsport.com

© Bosch Engineering GmbH 2024 | Data subject to change without notice 329317771 | en, , 19. Jul 2024

## Asia-Pacific:

Asia-Pacific: Bosch Engineering Japan K.K. Motorsports Department 1-9-32 Nakagawa Chuo, Tsuzuki-ku Yokohama City Kanagawa Prefecture 224-8601 Japan Tel.: +81 45 605 3032 Fax: +81 45 605 3059 www.bosch-motorsport.jp

#### Australia, New Zealand and South

Africa: Robert Bosch Pty. Ltd Robert Bosch Pty. Ltd Motorsport 1555 Centre Road Clayton, Victoria, 3168 Australia Tel.: +61 (3) 9541 3901 motor.sport@au.bosch.com

PSI ADCO DOut PSI5 DOut1 E ADC1 CANO I CAN1 1200 CAN0 USB • • PSI5 OUT+ С DOut2 ADC2 CAN1 H g PSI5 OUT-DOut3 ADC3 CAN1 L DAC DOut4 Throttle Actuator ADC4 PWM IN 1 Injectio Capture Č Throttle Actuator ADC: PWM IN 2 IN 2 Crank Shaft 1 Crank Shaft 2 Trigger ğ PWM / SENT 1 Cam Shaft 1 LIN Fuse Sync Relay Main Relay PWM / SENT 2 Cam Shaft 2 DA  $\mathbf{C}$ PWM / SENT 3 8 Cam 24V MainR-Sense PWM / SENT 4 Cam С  $\infty$ BOSCH C 12V т30 fexten GND Bosch Engineering µLC Test System 00000 T31

Pinout