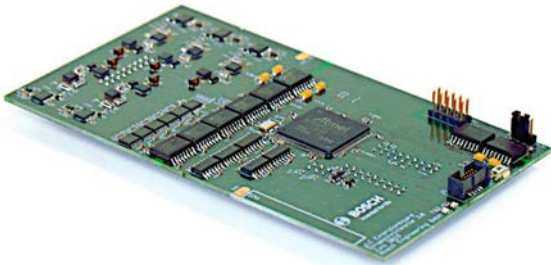


Expansion Board Current Loop Interface



- ▶ All common wheel speed sensors can be simulated
- ▶ Simulation of gear speeds possible
- ▶ Speed calculation based on wheel circumference
- ▶ Current limits freely adjustable from 0 mA to 40 mA

The **Expansion Board Current Loop Interface** extends the functions of the **μLC Test System** without intervening the software and without activating additional mechanisms. The numbered outputs are available for this purpose. Using the five provided channels it is possible to simulate up to five independent sensors. With integrated Lua scripting and the provided API it is possible to create automated tests.

Technical Specifications

TS		
Engine speed	-3,000 to 12,000 rpm	
Local pattern / teeth	48 to 60	
Signal duration forwards	35 to 55 μs	
Signal duration backwards	80 to 100 μs	
Gaps	0 to 10	
Prefixed bit	35 to 45	(de)activatable
Duty Cycle	737,000 μs	
Stand still signal duration	1,340 to 1,540 μs	
Stand still signal	150,000 μs	(de)activatable
AK		
Engine speed	-3,125 to 3,125 rpm	
Local pattern / teeth	48 to 60	
Parity	Even / odd parity	

LR-Bit	(de)activatable
LM0-Bit	(de)activatable
LM1-Bit	(de)activatable
LM2-Bit	(de)activatable
Stand still signal	150,000 μs

PWM-i		
Engine speed	-2,500 to 2,500 rpm	
Local pattern / teeth	48 to 60	
Duration LR	35 to 55 μs	(de)activatable
Duration DR_L	80 to 100 μs	
Duration DR_R	170 to 190 μs	
Duration DR_L_EL	350 to 370 μs	(de)activatable
Duration DR_R_EL	710 to 730 μs	(de)activatable
Stand still signal duration	1,430 to 1,450 μs	
Stand still signal period	737,000 μs	

PWM-s		
Engine speed	-5,000 to 5,000 rpm	
Local pattern / teeth	48 to 60	

Ordering Information

Expansion Board Current Loop Interface
 Order number **F02U.V02.889-01**

Represented by:

Europe:

Bosch Engineering GmbH
Motorsport
Robert-Bosch-Allee 1
74232 Abstatt
Germany
Tel.: +49 7062 911 9101
Fax: +49 7062 911 79104
motorsport@bosch.com
www.bosch-motorsport.de

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
www.bosch-motorsport.com

Asia-Pacific:

Bosch Engineering Japan K.K.
Motorsport
18F Queen's Tower C, 2-3-5 Minato
Mirai Nishi-ku, Yokohama-shi
Kanagawa 220-6218
Japan
Tel.: +81 45 650 5610
Fax: +81 45 650 5611
www.bosch-motorsport.jp

Australia, New Zealand and South

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