

# C-DIAS Interface Card for Servo

# CSLM 031

The CSLM 031 serves as the control for up to 3 drives over the Control Techniques SLM bus. A 6-pin Weidmüller plug is used to connect the SLM bus. An external 24 V power supply is connected using a 2-pin Phoenix plug, which powers the SLM ports. The CSLM is controlled using a C-IPC only (version x2.3 or higher).



## Technical Data

### SLM Bus Connection

Number of ports	3
Signal level	RS485 110Ω termination 560Ω spread
Galvanic separation	None
Power supply for SLM-Bus	24V / max. 150mA per channel

According to Control Techniques, the maximum length of the power cable for the SLM bus supply is (X4) 3 meters.

## Electrical requirements

External +24V power supply	18 – 30V DC	
Current consumption of the external +24V power supply	Maximum 450 mA	
C-DIAS power supply	+5V	
Current consumption of the C-DIAS bus (+5V supply)	Typically 150mA	Maximum 200mA

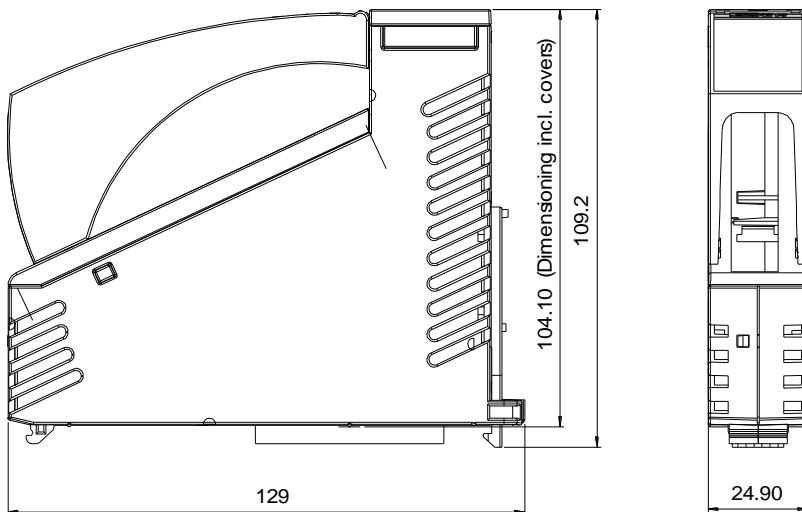
## Miscellaneous

Article number	12-064-031
Hardware version	1.x

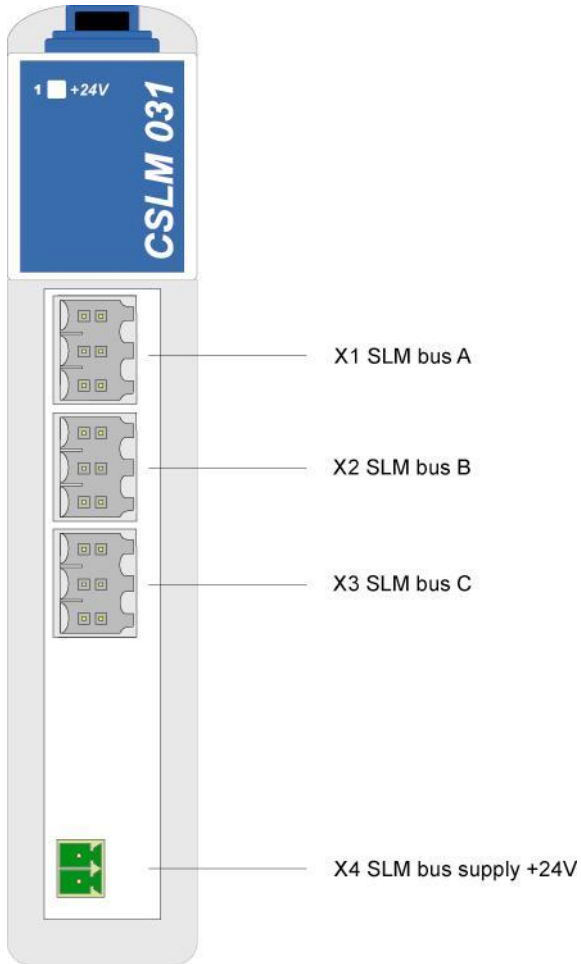
## Environmental conditions

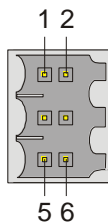
Storage temperature	-20 – +85°C	
Operating temperature	0 – +60°C	
Humidity	0 – 95%, Uncondensed	
EMV stability	EN 61000-6-2:2001 (Industry area)	
Shock resistance	EN 60068-2-27	150m/s <sup>2</sup>
Protection	EN 60529	IP 20

## Mechanical Dimensions

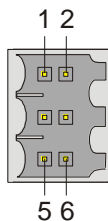


## Connector Layout

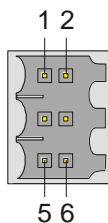


**SLM-Bus A (X1):**


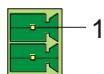
Pin	Function
1	RS485 (SLM-Bus A)
2	RS485 (SLM-Bus A)
3	GND
4	+24_ext.
5	n.c.
6	n.c.

**SLM-Bus B (X2):**


Pin	Function
1	RS485 (SLM-Bus B)
2	RS485 (SLM-Bus B)
3	GND
4	+24_ext.
5	n.c.
6	n.c.

**SLM-Bus C (X3):**


Pin	Function
1	RS485 (SLM-Bus C)
2	RS485 (SLM-Bus C)
3	GND
4	+24_ext.
5	n.c.
6	n.c.

**SLM-Bus Power supply (X4):**


Pin	Function
1	+24V-external
2	GND

## Applicable Connectors

### Connectors with spring terminals:

6-pin Weidmüller plug B2L/B2CF 3,5/6

2-pin Phoenix Contact FK-MCP 1,5/ 2-ST-3,5

The complete CKL 014 C-DIAS connector set with spring terminals is available from Sigmatek under the article number: 12-600-014

## Status Display



LED No.	LED color	Meaning
1	Green	+24 V

## Addressing

Address (hex)	Descriptions
00 – 1F	Address range of the SLMBUS-A (for detailed addressing see Asic Drivelink documentation)
20 – 3F	Address range of SLMBUS-B (for detailed addressing see Asic Drivelink documentation)
40 – 5F	Address range of SLMBUS-C (for detailed addressing see Asic Drivelink documentation)

## Calibration data for the CSLM 031 (24C02 is organized by byte)

Address	Data	Description
		<b>HW identification</b>
\$00	\$xx	Check sum
\$01	123	Identification
\$02	30	Module group 30=CSLM
\$03	1	Module variant 1=CSLM031
\$04	3	Number of channels
\$05	10	Hardware version \$10=HW 1.0
\$06-\$07	0	FILL
\$10		Serial number