

## 4.1 Expansion Modules MAC00-CS



### 4.1.1 Expansion module MAC00-CS — overall description

The MAC00-CS module is the simplest expansion module in the series of modules since no electronics are included. The MAC00-CS is simply a rear plate rated for IP67, but includes cables for power and I/O signals. The MAC00-CS connects directly into the basic MAC motor with all connectors available except for the serial communication (asynchronous com port).

Applications:

- Closed loop operation with a master controller.
- “Stand alone” axis with pulse and direction input.
- Simple speed control of conveyor system or feeding mechanism.
- Dispenser systems.
- .....and many more.

MAC00-CS is available in following versions:

Type	Cable length
MAC00-CS-02	2m / 79”
MAC00-CS-10	10m / 394”
MAC00-CS-20	20m / 787”

The cable connections are as follows:

Power cable		I/O cable		
“Power supply” connector in basic motor	Wire colour	“I/O” connector in basic motor	Function	Wire colour
“P+” (Main PWR) / pin 1	Red	“GND” / pin 1	Signal ground	White/Orange
“P-” (GND) / pin 2	Black	“AIN” / pin 2	Analogue input	Orange
	Screen	“O1” / pin 3	Output 1	White/Green
		“O2” / pin 4	Output 2	Green
		“A+” / pin 5	Multifunction I/O “A+” Max 5V !	White/Blue
		“A-” / pin 6	Multifunction I/O “A-” max 5V !	Blue
		“B+” / pin 7	Multifunction I/O “B+” max 5V !	White/Brown
		“B-” / pin 8	Multifunction I/O “B-” max 5V !	Brown
The housing (GND) of the motor is connected to the cable screen				

For details of the description of each signal and how to connect and use these, please refer to the description of the basic motor: section 3