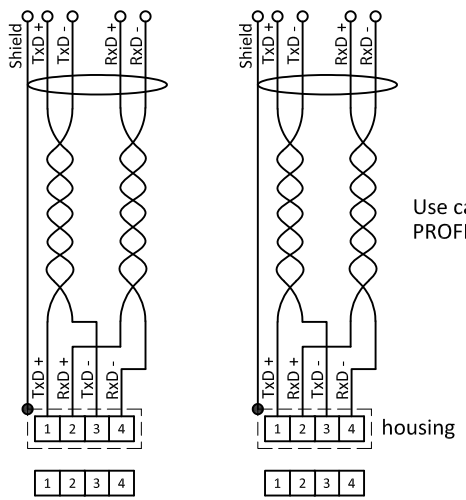
Bronkhorst®

doc.nr.: 9.16.207C
datum: 27-11-2018

PROFINET

MBC3 Hook-up diagram
Multibus instruments
Laboratory style

PROFINET connection



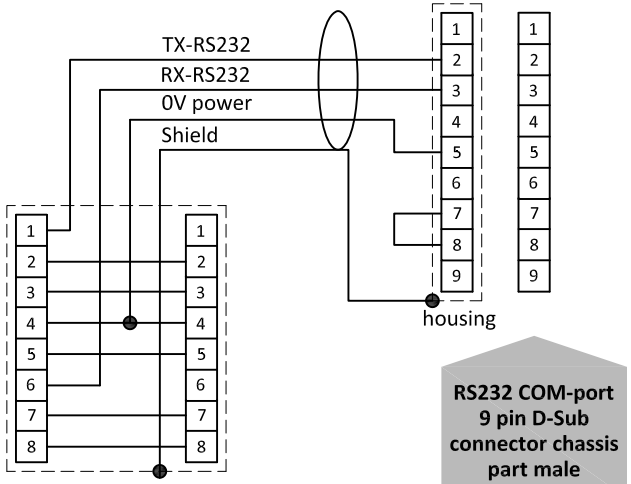
Use cable suitable for PROFINET

B

M12 con. female chassis part D-coded

M12 con. female chassis part D-coded

RS232 connection



RS232 COM-port 9 pin D-Sub connector chassis part male

T-adapter cable 7.03.444

Model key explanation

For other explanation see 9.16.125

Option: Pin 1&6 [X X] - Pin 5 [X X X]

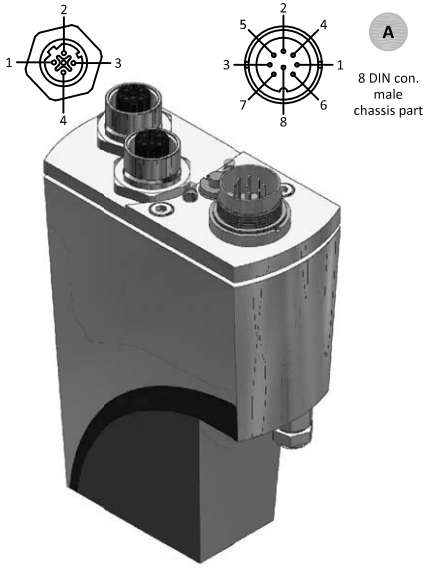
or

.. - [X X X] - .. - [X X] - [X X X]

D	+15Vdc-24Vdc power supply	
A	Output / setpoint	0-5Vdc
B	Output / setpoint	0-10Vdc
F	Output	0-20mAdc sourcing
	Setpoint	0-20mAdc sinking
G	Output	4-20mAdc sourcing
	Setpoint	4-20mAdc sinking
V	(PROFINET), Normally closed valve	
W	(PROFINET), Normally opened valve	

B

2x M12 con. female chassis part D-coded



Note:
Due to the limited space between the connectors, the maximum diameter for the M12 mating connector is 18mm.

A

1	TX-RS232/BUS
2	Analog output
3	Analog input
4	0V power
5	Custom ¹
6	RX-RS232/BUS
7	+Us
8	0V sense

Instrument signals

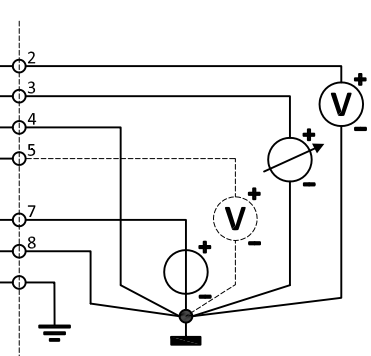
1	Analog output
2	Analog input
3	0V power
4	Custom ¹
5	
6	
7	+Us
8	0V sense
	Shield

housing

8 DIN connector chassis part male

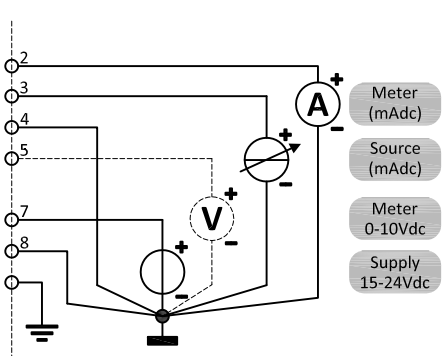
8 DIN connector cable part female

Note:
1) Default disabled, 0Vdc.



Note:
0V power (pin 4) **and** 0V sense (pin 8) should be separately connected to the 0V terminal at the power supply.

Analog operated 0-5 or 0-10Vdc



Note:
In analog mode with 'mA signals' Pin 8 (0V sense) does not need to be connected. The instrument's operation will not be effected in case Pin 8 is already hooked-up

Analog operated 0-20 or 4-20mAdc

Note:
When using a field bus or RS232, it is not possible to operate the instrument by using the setpoint signal of the analog 8 DIN connector without changing the value of parameter ''control mode''.
See doc.nr. 9.17.023 for more details.
Do not connect an external valve to instruments, set as MFM or EPM.