Bronkhorst®

doc.no.: 9.16.218A
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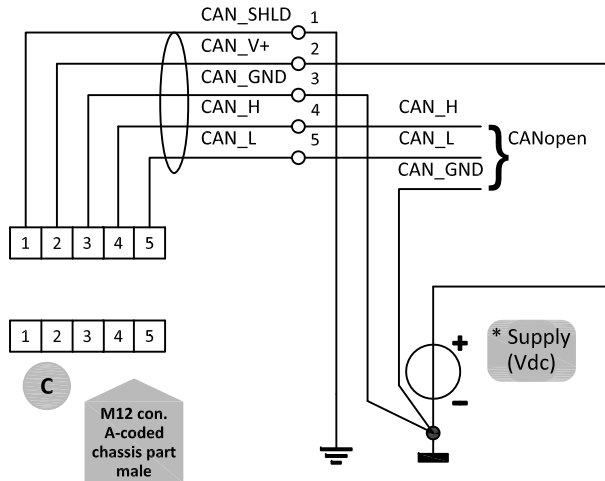## CANopen

MBC3 Hook-up diagram
ML Series instruments

CANopen connection

CAN_SHLD 1
CAN_V+ 2
CAN_GND 3
CAN_H 4 — CAN_H
CAN_L 5 — CAN_L } CANopen
CAN_GND

| 1 | 2 | 3 | 4 | 5 |

| 1 | 2 | 3 | 4 | 5 |

C

M12 con.
A-coded
chassis part
male

* Supply
(Vdc)
+ / −

Model key explanation

Pin 5

.. - X X X - .. - .. .. - X X X

| D | +15Vdc - 24Vdc power supply *
*standard power supply DeviceNet/CANopen: 24Vdc |

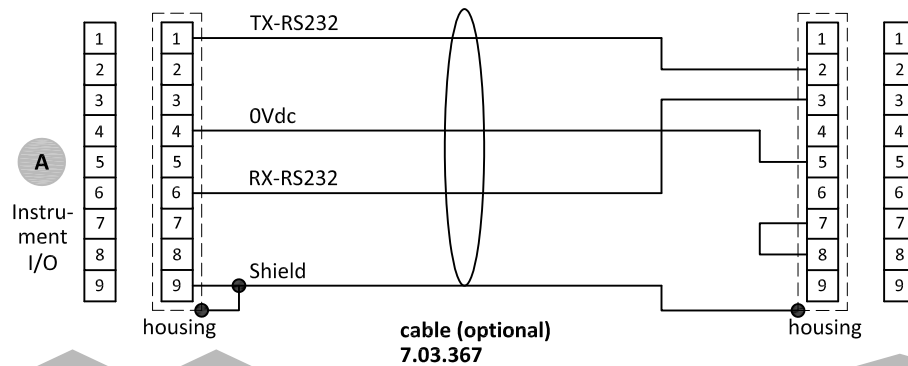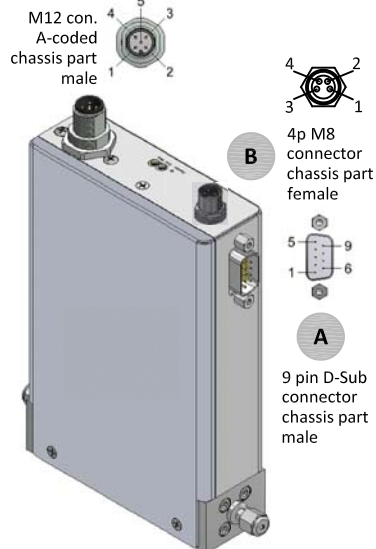| A | Output / setpoint | 0-5Vdc |
B	Output / setpoint	0-10Vdc
F	Output	0-20mAdc sourcing
	Setpoint	0-20mAdc sinking
G	Output	4-20mAdc sourcing
	Setpoint	4-20mAdc sinking
K	(CANopen), Normally closed valve (NC)
L	(CANopen), Normally opened valve (NO)
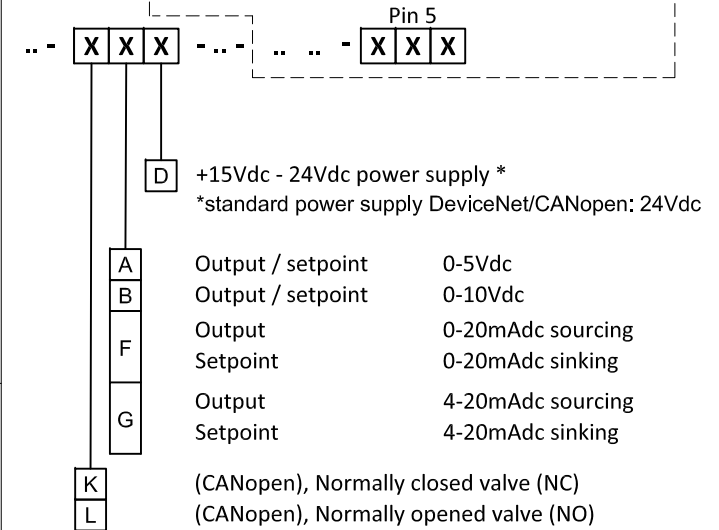
POWER SUPPLY WARNING

⚠️ Do not power the instrument simultaneously from two different power sources (e.g. bus connection and Plug-in Power Supply). Doing so will damage the printed circuit board irreparably.

C
M12 con.
A-coded
chassis part
male

B
4p M8
connector
chassis part
female

A
9 pin D-Sub
connector
chassis part
male

A
Instru-
ment
I/O

TX-RS232
0Vdc
RX-RS232
Shield

housing

cable (optional)
7.03.367

housing

| 9 pin D-Sub connector chassis part male | 9 pin D-Sub connector cable part female |

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

Note:
When using a field bus or RS232, it is not possible to operate the instrument by using the setpoint signal of the analog D-sub connector without changing the value of parameter "control mode".
See doc.nr. 9.17.023 for more details

Note:
Do not connect an external valve to instruments which is set as meter.

Note:
Powering a single instrument is possible by the D-sub connector.
Please consult 9.16.132 for a connection diagram.

Note:
For information about the optional **B** "Valve/Actuator" connector.
See doc.nr. 9.16.131 for more details.