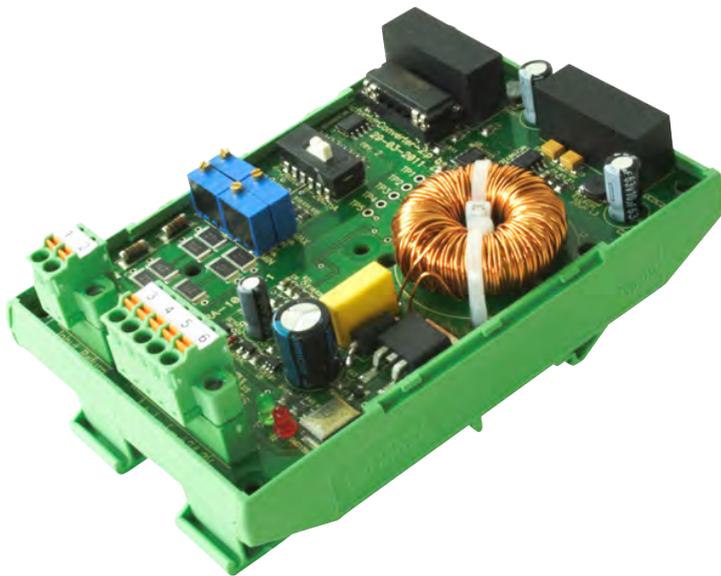


ECM7118 Build 04, 05

DATA SHEET



Features

Wire break detection

Multi signal input 4-20 mA
and 0-200 mA

Galvanic isolation on input
signal

Description

This module provides an interface between any of the REGULATEURS EUROPA (RE) range hydraulic actuators and electronic control units from other manufactures.

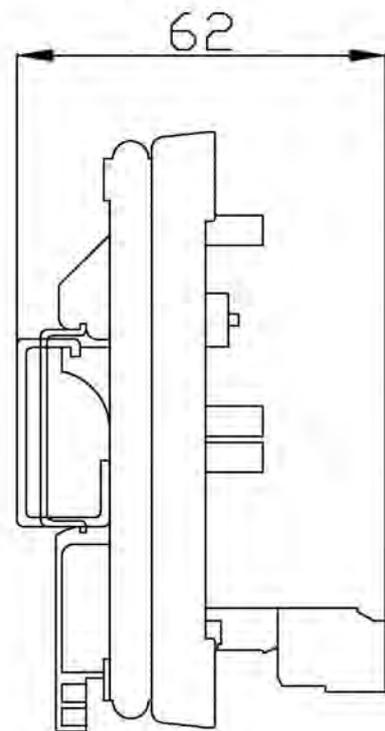
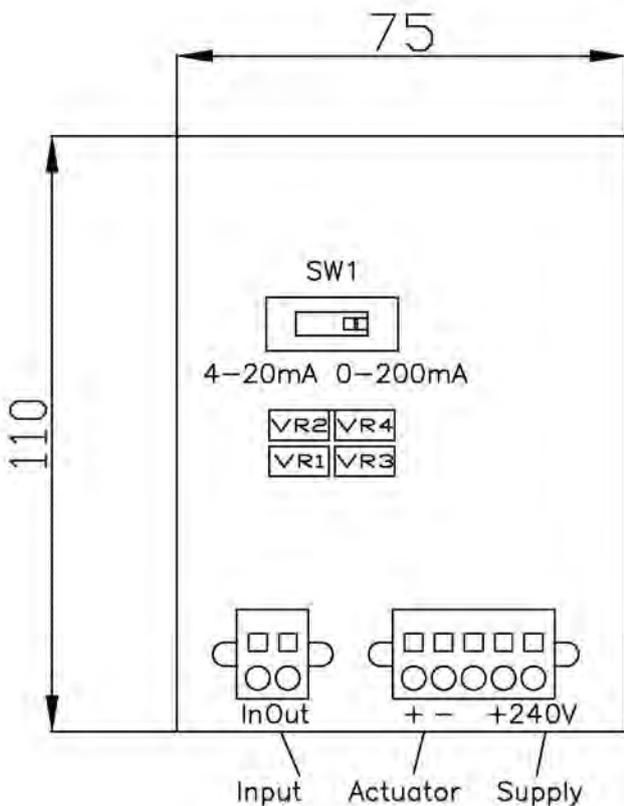
The module is available in a standard open housing for DIN rail mounting

As a safety feature the module will interrupt the input signal loop if a wire break is detected in the outgoing signal loop to the actuator, or in case of power supply failure. This enables the control system to detect wire break in the entire loop.

General technical data

Size	75 mm x 110 mm x 50 mm
Mounting	Standard DIN rail mounting
Power supply	24 VDC (18-32 V) max. 2 A
Input	Selectable 0-200 mA or 4-20 mA. The input signal is isolated from both power supply and output signal.
Input resistance	35 Ω for 0-200 mA input, 235 Ω for 4-20 mA input
Output	Pre-set for RE series actuators, or 0-1000 mA nominal
Time lag	< 5 mSec. for 100 % step
Ambient temperature	-10 °C to +75 °C
EMC requirements	In order to comply with the requirements of IEC61000-4-2, -3, -4 and -5 the module must be mounted in a steel plate enclosure.
Type approval	GL and DNV type approved, BV type approval pending

Dimensions and connections



Mounting on Rail G32
or Hatrail 35
DIN EN 60715

The module is fitted with a self-resetting fuse. The LED will indicate power supply available (green) or fuse interrupted (red).

The module will detect an open loop in the output signal. In that instance, or in case of power supply failure, the input signal loop will be interrupted also. This enables the control system to detect failure of the entire loop.

Mounting instructions

In order to comply with EMC requirements the converter must be fitted in a steel plate enclosure!

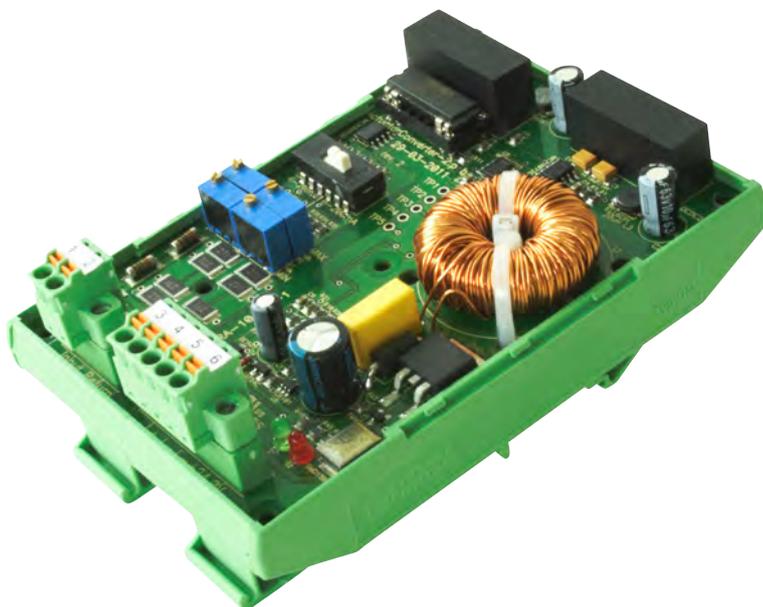
The cabling for the control and actuator signals must be shielded, shield connected to ground at one side only.

MODEL	INPUT	OUTPUT
ECM7118-04	4 - mA or 0 - 200 mA	Pre-set for 83 - 917 mA
ECM7118-05	4 - mA or 0 - 200 mA	Pre-set for 0 - 1000 mA

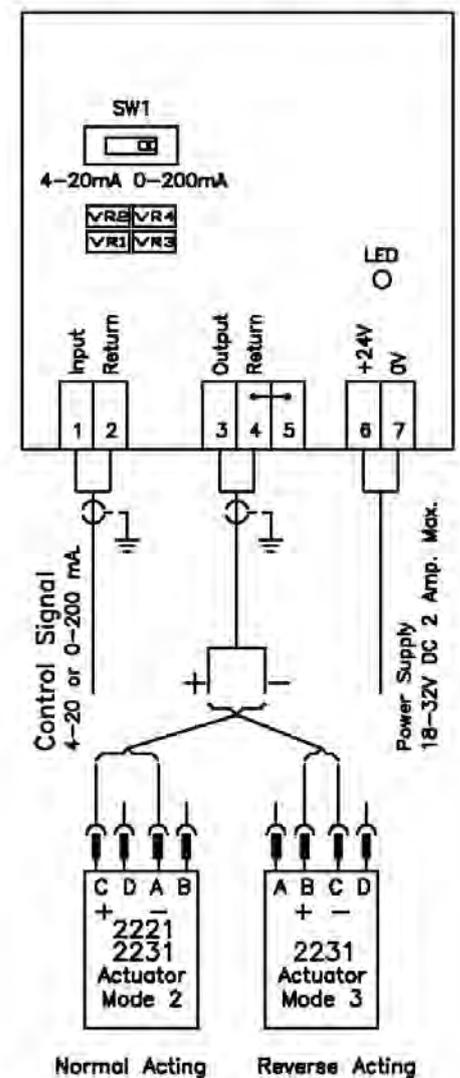
The input range is to be selected with switch SW1
Position left is 4 - 20 mA. Position right is 0 - 200 mA.

Setpoint and span for the output signal may be adjusted separate for each range.

VR1	Setpoint output signal for input signal range	4 - 20 mA
VR2	Span output signal for input signal range	4 - 20 mA
VR3	Setpoint output signal for input signal range	0 - 200 mA
VR4	Span output signal for input signal range	0 - 200 mA



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Note:

If the actuator is connected by means of a 14-pole connector:

F = +

G = -

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