Regulateurs Europa
Member of the HEINZMANN Group

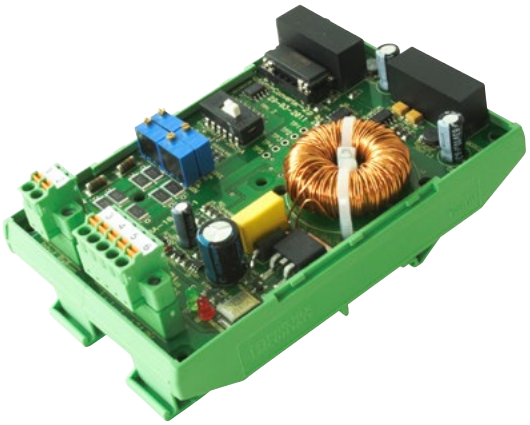
# ECM7118 Build 04, 05

## DATA SHEET

### Features

- Wire break detection
- Multi signal input 4 ... 20 mA and 0 ... 200 mA
- Galvanic isolation on input signal

### Description

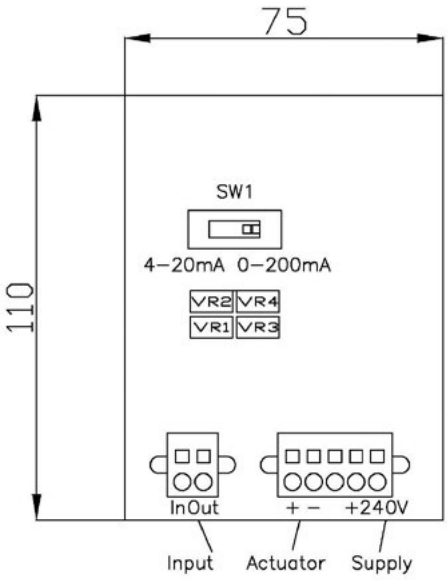


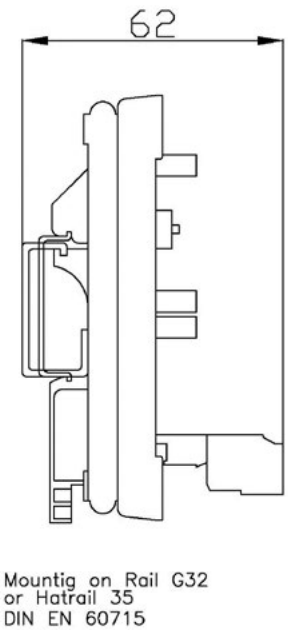
This module provides an interface between any of the REGULATEURS EUROPA (RE) range hydraulic actuators and electronic control units from other manufactures.

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.

### Dimensions and connections



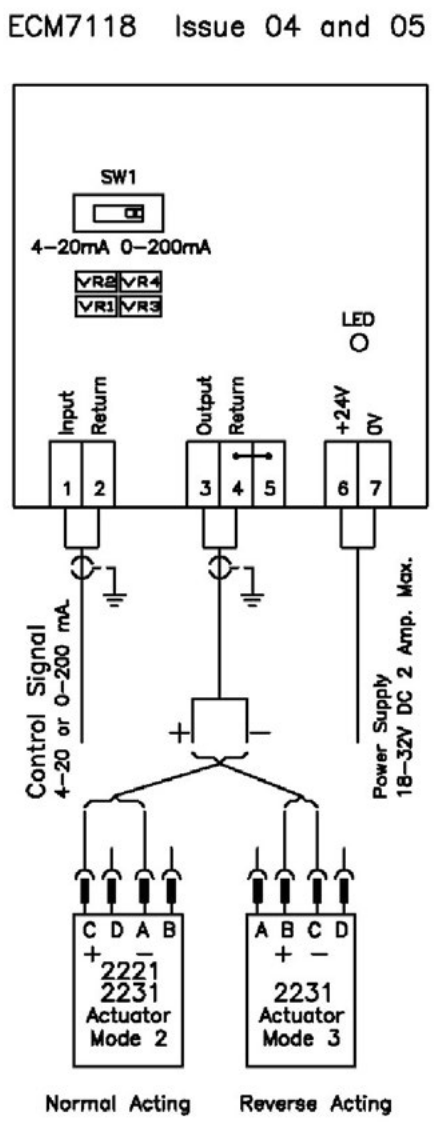

The module is fitted with a self-resetting fuse. The LED will indicate power supply available (green) or fuse interrupted (red).

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.

## 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 or 4 ... 20 mA<br>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 ... 1,000 mA nominal |
| Time lag | < 5 mSec. for 100 % step |
| Ambient temperature | -10 ... +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 | DNV GL type approved |

## 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.

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 |

**Note:**

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

F = +

G = -

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