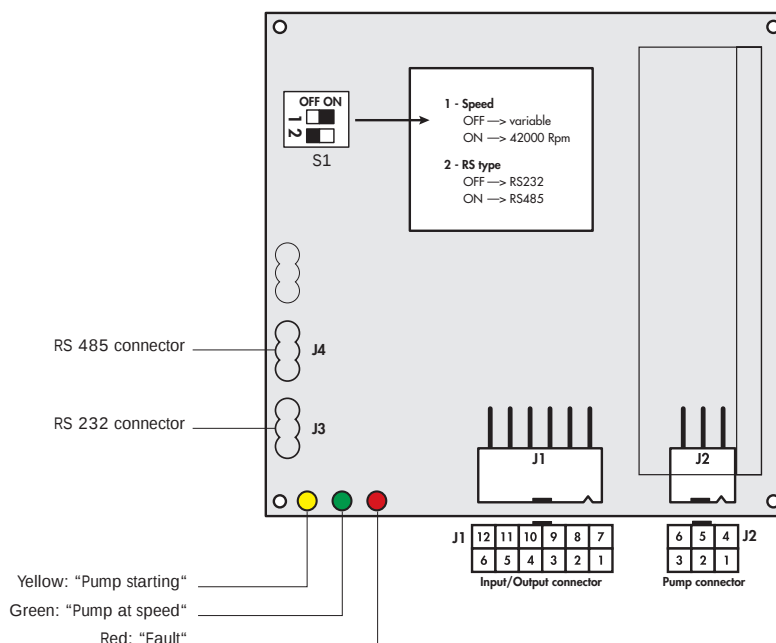


ACT 201 H "mini Board" power supply and remote control wiring

Switch S1 setting

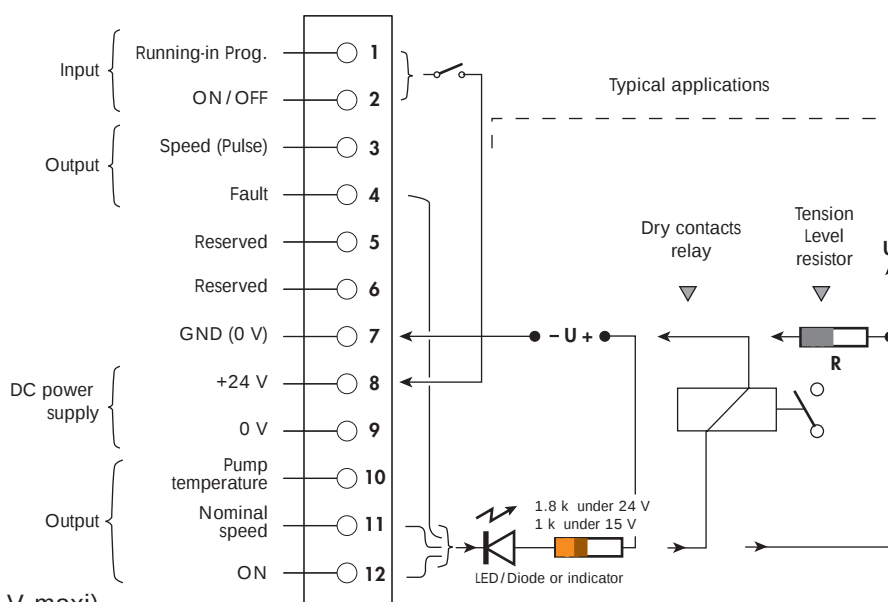


Switch S1 allows to select the serial link type (see **B 91**) and the rotation speed. The variable speed depends on the set command on the serial link (RPM see **B 100**).

Input/Output connector

This remote control connector allows to command START, STOP, Running-in program, and output the monitoring parameters. The connection is a female connector Molex Minefit JR 12 Pts P.N.: 39-01-2125 + contacts P.N. 39-00-0039

Input/Output connector J1



U supplied by the customer (30 V maxi).

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Available outputs

Outputs are open collector type outputs (I_{max} 100 mA; V_{max} 30 V) whose function is to provide the information related to the pump status.

The light indicator is ON when the corresponding output is valid (low level).

Light	Pin	Description	Light indicator status
Green 	Speed 11	Nominal speed has been reached by the pump.	Lit: the nominal speed is reached or higher than the one selected.
Yellow 	Start 12	The pump is accelerating.	Lit: the speed is lower than nominal speed.
Red 	Fault 4	A fault occurs.	Flashing: warning is signaled. Lit: faulty pump.
-	Speed (pulse) 3	This output delivers one pulse with a frequency equal to the pump speed in rps (700 Hz $\longrightarrow$ 42000 rpm).	
-	Pump temperature 10	This output delivers a DC voltage with a linear variation from 0 to 5V 0V $\longrightarrow$ 100°C 5V $\longrightarrow$ 0°C	

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Command inputs (see figure 1/4)

The input is transmitted when the external contact is closed (high level: +24V), and not transmitted if the external contact is open (low level).



Input operation depends on the RS "OPT4" command (see B100).

	Pin	Input status
Start/Stop	2	Open the external contact on input J1-1 (low level). Starting the pump: close the external contact J1-2 (high level). Opening of the contact stops the pump.
Running-in Program	1	First, open the external contact J1-2 (low level). Close the external contact J1-1 (high level: running-in request) and close the contact J1-2 (high level: running-in starts).



At the end of the running-in program according to the inputs J1-1 and J1-2, the operating mode is as follows:

- if the two external contacts are open (low level), the pump stops.
- if the external contact J1-2 is closed (high level), that J1-1 is open (low level), the pump starts and runs at nominal rotational speed.
- if the external contacts J1-2 and J1-1 remain closed (high level), the running-in program is started.

Factory configuration

OPT4 = 0 => Remote control has priority.

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Fault monitoring **The warning are indicated by:**

- the flashing of the red light indicator:
 - the pump temperature exceeds the warning limit.
 - the mini board temperature exceeds the alert warning limit.

The faults are indicated by:

- the lighting of the red light indicator:
 - the pump temperature exceeds the fault limit.
 - the mini board temperature exceeds the fault limit.
 - cable connection between the pump and miniboard is not connected.
 - current security on the mini board.