

## Electronic pressure switch **EDS** for 1 and 2 pumps

The electronic pressure switch (**EDS-2**) is a complete electronic control for the enterprise of single and double pumping plants in application as: Pressure increasing system or level regulations. The electronic pressure switch can be operated with centrifugal pumps, piston pumps or submerged pumps. The pumps are switched off demand-related too and. The pump change takes place after each run. The pressure monitoring amounts to 50% of the switching on value. The transducer is constantly supervised on function.

Customized special solutions are possible on request.

### Warrant of apprehension:

- 1-2 pumps
- 0.75... 3.0 KW 230V~
- 0.75... 132 KW 400V 3~
- Clear text display
- Steel switchgear cabinet
- 4..20mA - transducer

### Areas of application:

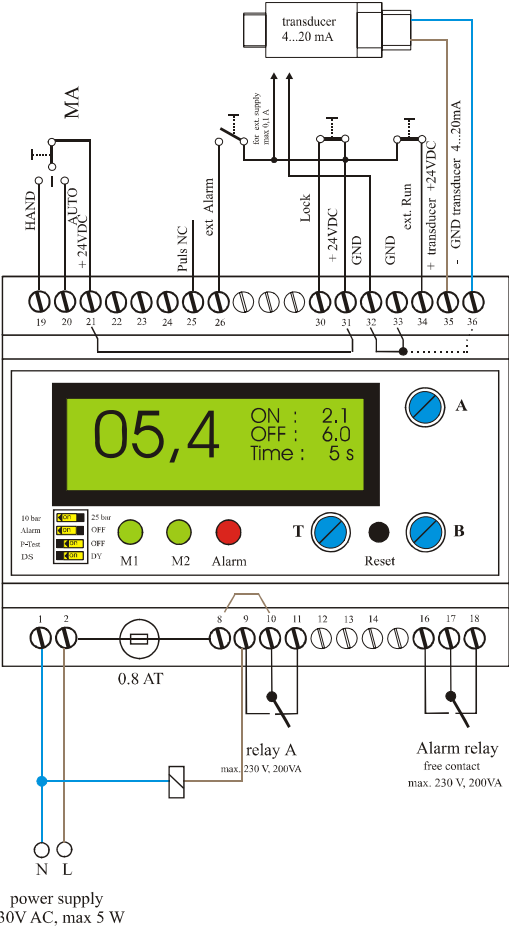
- **Pressure increasing systems**
- **Raining systems**
- **Cooling systems**
- **Water level control**
- **Fire-extinguishing systems**

### Characteristics of the MAD Pressure switch systems:

- Capacity range: 0,75kW... 3,0kW/230V 50/60Hz/0,75kW... 132kW/400V 50/60Hz
- Pressure control system for 1 and 2 pumps
- Free setting electronic pressure switch with background-lit clear text display.
- Connection for 4..20mA- transducer 10bar and 25bar
- two – point controller „DS“ (work with a vessel)
  - *pressure control with a vessel*
  - *switching on after starting pressure „A“; switching off after switch-off pressure „B“*
  - *adjustable hunting time „T“*
  - *basic load and peak load regulation*
  - *pump change after each run*
- two – point controller „DY“ (work without a vessel)
  - *pressure control without a vessel*
  - *switching on after starting pressure „A“; dynamic off after current „0“*
  - *adjustable switching off sensitivity „B“*
  - *adjustable hunting time „T“*
  - *basic load and peak load regulation*
  - *pump change after each run*
- Disconnection of lack of water
  - *Pressure monitoring with 50% pressure of the switching on value*
  - *use for over-current protection or dry running*
  - *Turn-off delay with brief pressure fluctuations*
- Filling mode
  - *Activation of lack of water after first switching off*
  - *use for filling the system*
- Disturbance alarm mode
  - *breakdown signal relay message selectable*
  - *minimum pressure fluctuations / level fluctuations*
  - *use for over-current protection or dry running*
- transducer monitoring
  - *Transducer lifetime control*
  - *Hand drive immediately start possible*
- External inputs
  - *float switch, external disturbance, hand, auto,*
- External outputs
  - *relay contacts for alarm and pumps*
- Adjustable 24h short start
  - *Use for fire – extinguishing system*
- Internal error memory and switching cycle counter
- clear text display for actual value, settings, operating messages, disturbances, ...
- compact steel switchgear cabinet IP54
- Main switch lockable

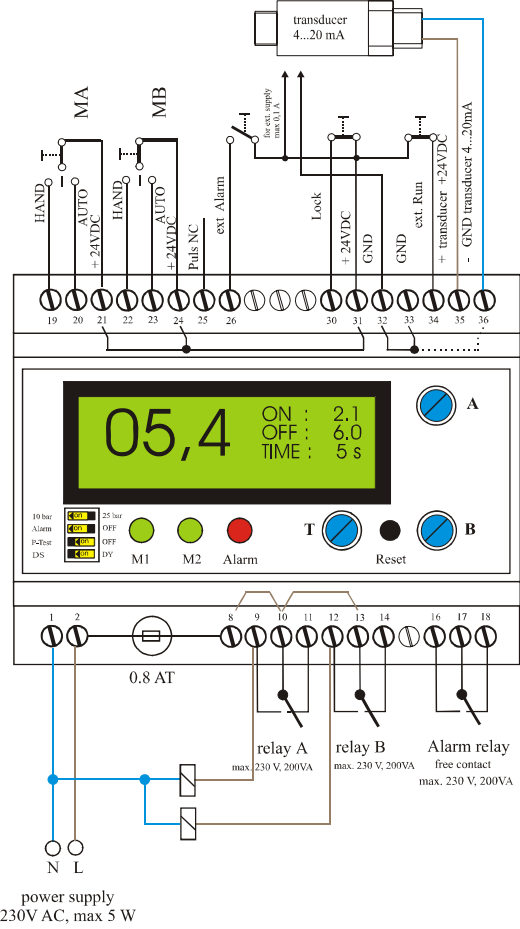
# Circuit diagram for electronic pressure switch MAD with EDS

1 pump unit :



! all relay-contacts without undervoltage protection

2 pump units:



! all relay-contacts without undervoltage protection